129.105:SER-63



VEGETATION OF THE SOUTHERN APPALACHIANS: AN INDEXED BIBLIOGRAPHY, 1805-1982



RESEARCH/RESOURCES MANAGEMENT REPORT SER-63



US. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHEAST REGION

UPLANDS FIELD RESEARCH LABORATORY
GREAT SMOKY MOUNTAINS NATIONAL PARK
TWIN CREEKS AREA
GATLINBURG, TENNESSEE 37738





The Research/Resources Management Series of the Natural Science and Research Division, National Park Service, Southeast Regional Office, was established as a medium for distributing scientific information to park Superintendents, resource management specialists, and other National Park Service personnel in the parks of the Southeast Region. The papers in the Series also contain information potentially useful to other Park Service areas outside the Southeast Region and may benefit independent researchers working within units of the National Park System. The Series provides for the retention of research information in the biological, physical, and social sciences and makes possible more complete in-house evaluation of non-refereed research, technical, and consultant reports.

The Research/Resources Management Series is not intended as a substitute for refereed scientific or technical journals. However, when the occasion warrants, a copyrighted journal paper authored by a National Park Service scientist may be reprinted as a Series report in order to meet park informational and disseminative needs. In such cases permission to reprint the copyrighted article is sought. The Series includes:

- 1. Research reports which directly address resource management problems in the parks.
- 2. Papers which are primarily literature reviews and/or bibliographies of existing information relative to park resource management problems.
- 3. Presentations of basic resource inventory data.
- 4. Reports of contracted scientific research studies funded or supported by the National Park Service.
- 5. Other reports and papers considered compatible to the Series, including approved reprints of copyrighted journal papers and results of applicable university or independent research.

The Series is flexible in format and the degree of editing depends on content.

Southeast Regional Research/Resources Management Reports are produced by the Natural Science and Research Division, Southeast Regional Office, in limited quantities. As long as the supply lasts, copies may be obtained from:

Natural Science and Research Division National Park Service Southeast Regional Office 75 Spring Street, S.W. Atlanta, Georgia 30303

NOTE: Use of trade names does not imply U.S. Government endorsement of commercial products.

VEGETATION OF THE SOUTHERN APPALACHIANS:

AN INDEXED BIBLIOGRAPHY, 1805-1982

Research/Resources Management Report SER-63

Harry R. DeYoung
Peter S. White
Uplands Field Research Laboratory
Great Smoky Mountains National Park
Twin Creeks Area
Gatlinburg, Tennessee 37738

and

H. R. DeSelm
Botany Department
University of Tennessee
Knoxville, Tennessee 37916

August 1982

U.S. Department of the Interior National Park Service Southeast Regional Office Natural Science and Research Division 75 Spring Street, S. W. Atlanta, Georgia 30303

This work was supported by the Great Smoky Mountains Natural History Association

DeYoung, Harry R., Peter S. White and H.R. DeSelm. 1982. Vegetation of the Southern Appalachians: An Indexed Bibliography, 1805 - 1982. U.S. Department of the Interior, National Park Service, Research/Resources Management Report SER-63. 94 pp.

TABLE OF CONTENTS

	Page
Abstract	i
Acknowledgements	ii
Introduction	iii
Methods	vi
Results and Discussion	viii
Literature Cited	xiv
The Index	xv
BIBLIOGRAPHY OF SOUTHERN APPALACHIAN VEGETATION	1
INDEX: Southern Appalachian Vegetation	81
APPENDIX I - CROSS-REFERENCE CODING INSTRUCTIONS, VEGETATION BIBLIOGRAPHY	87
LIST OF TABLES	
Table	
1 Number of citations to date	хi
2 Number of citations by form of material	хi
3 Geographic area of reference	xii
4 General reference type	xii
5 Number of references by general topic	xiii
6 Frequency distribution by vegetation types	xiii

Digitized by the Internet Archive in 2012 with funding from LYRASIS Members and Sloan Foundation

ABSTRACT

A bibliography of 1,081 references (78 of which are in a 1981-1982 supplementary update to the main list) was developed to provide researchers and naturalists with access to the accumulating work on southern Appalachian vegetation. The geographic focus was Great Smoky Mountains National Park, but studies from a broader area were included: northern Georgia, northwestern Alabama, western North and South Carolina, eastern Tennessee and Kentucky, eastern West Virginia, western Virginia, and western Maryland. The subject matter focus was the description and understanding of southern Appalachian vegetation patterns. Most papers listed are on the plant community level; typically, these describe vegetation composition, structure, and successional dynamics, and report the environmental relations or gradient distributions of species and vegetation types. Ecosystem and population work have also been cited, particularly when containing explicit reference to community patterns. We have provided an index of 80 major topics to aid initial literature searches. An appendix details the way in which cross-referencing categories were entered into a computerized data base.

ACKNOWLEDGEMENTS

The Great Smoky Mountains Natural History Association provided financial support for the compilation of this bibliography. We thank Shirley Boykin and Joyce McCarter of that organization for their kind help in administering the project. We also thank Claryse Myers, Great Smoky Mountains National Park librarian, for her assistance in obtaining interlibrary loans. The need for bibliographic guides to scientific research in Great Smoky Mountains National Park and its surrounding area was first articulated by a committee representing the park offices of Interpretation and Resources Management and the Uplands Field Research Laboratory. The project has been supervised by Peter White of Uplands Laboratory.

INTRODUCTION

The rich vegetation of the southern Appalachians has attracted the attention of botanists and plant ecologists for over 100 years. The bibliography presented here contains 1,081 references spanning 177 years. Our primary objective in compiling this bibliography was to provide researchers and naturalists with access to this accumulating body of work. The volume of materials cited led us to provide an index by major topics.

This bibliography is part of an ongoing series on the biota and environment of Great Smoky Mountains National Park (GRSM) and vicinity. Bibliographies on Pteridophytes (Evans et al. 1981), Phanerogam systematics (Wofford and White 1982), and Chiroptera (Rabinowitz 1982) have been published. Other bibliographies on the area's soils, geology, and salamanders are in preparation. The bibliography project was, in part, inspired by the recognition of GRSM as an International Biosphere Reserve (Johnson and Bratton 1978). Shorter subject bibliographies restricted to work done within the national park appear in McCrone et al. (1982).

In order to provide easy access to the literature, Charlotte Pyle and Peter White designed a cross-reference system. This allowed us to index the bibliographies and to use the same reference on separate bibliographies (e.g., a reference that describes soils, geology, and vegetation was assessed once and was accessible for the three separate final reports). The cross-reference form was formatted for keypunching and is part of a computerized data base being developed at Uplands Field

Research Laboratory. The cross-referencing codes for the vegetation bibliography are included in this report as Appendix I.

Geographic Scope

Vegetation studies from a broad area of the southern Appalachian landscape are relevant to the understanding of vegetation patterns in GRSM. Although we provide an index to studies done within the strict confines of the national park itself, we have assembled literature from a larger geographic area. Research treating the conterminous mountainous portions of the following states has thus been included here: northeastern Alabama, northern Georgia, western West Virginia, western Virginia, and western Maryland (this coincides approximately with the "southern Appalachian highlands" as described by Blauch (1975). The bibliography focuses on the Blue Ridge physiographic province (Fenneman 1938), but parts of two adjacent provinces were also included—the Appalachian Plateau Province and the Ridge and Valley Province.

Definition of Subject Matter

The subject matter of this report is the description and understanding of southern Appalachian vegetation patterns. A wide variety of research is encompassed under this heading. Most papers focus on the community level; typically, these describe vegetation composition, structure, and successional dynamics. Community level work often describes environmental relations and/or gradient distributions of species and vegetation types. Ecosystem and population level works are also cited, particularly when they contain explicit references to community patterns.

The following areas were not exhaustively reviewed: autecology (or silvics) of southern Appalachian species, forestry-oriented studies of production and regeneration, and paleoecology. Nonetheless, important articles from each of these areas were included. Floras and checklists are frequently cited, particularly if they included descriptions of community types and species distributions. Special effort was made, of course, to include literature that had specific reference to the Great Smoky Mountains. The practical needs of resource managers in GRSM led us to include various impact studies (e.g., air pollution and exotic species impacts). The bibliography includes predominantly technical literature (journal articles, theses, dissertations, and government reports), although some popular articles and descriptive narratives were included, particularly in the older literature.

As might be inferred from the broad geographic scope and subject matter definition, the ultimate inclusion or exclusion of a given reference was, at least in part, a subjective decision. We tried to be consistent in these decisions and to make the bibliography complete and systematic. Omissions of one sort or another have probably occurred; we hope we have kept these to a minimum. Because the preparation of this report began two years ago, we felt it necessary to add a series of references that have only recently come to our attention; they are numbered from 2000 and are cited in the index.

We have made good use of several bibliographies for our region and subject matter: Stockbridge (1911, no. 860 in the bibliography), USDA Forest Service (1947, no. 915), Egler (1961, no. 282), Munn (1961, no.

643), Haug and Van Dyne (1968, no. 403), Hardin and McDonald (1975, no. 385), Sargent (1977, no. 775), and Peet (1979, no. 684). Peet's bibliography is particularly germaine, as it treats the vegetation of North Carolina (it includes Piedmont and Coastal Plain studies not referenced here). Sargent's bibliography covers work done at the Highlands Biological Station; it is updated in the station's Annual Announcement. For a compilation of literature on balds, see Saunders (1981) and references cited therein. The reader is further directed to the Guide to American Botanical Literature published in the Bulletin of the Torrey Botanical Club.

Two additional sources of information include abstracts from the Bulletin of the Association of Southeastern Biologists and the Proceedings of the Annual Scientific Research Meetings of the National Park Service, Southeast Regional Office (held each June in GRSM; copies are available on request through the Uplands Field Research Laboratory). These abstracts are not referenced here.

METHODS

The bibliographic search was predominantly done at GRSM and the University of Tennessee at Knoxville. We began with the card file and reprint collection of Peter White (at Uplands Field Research Laboratory). The GRSM Library was searched. At the University of Tennessee, literature from the card file and reprints of H. R. DeSelm were added. Theses and journals were reviewed at the University

Library. Other libraries used included those of Oak Ridge National Laboratory, Oak Ridge, Tennessee, and the Tennessee Valley Authority, Norris, Tennessee. We searched all issues of the following journals: Castanea, Bulletin of the Torrey Botanical Club, Torreya, Journal of the Elisha Mitchell Science Society, American Midland Naturalist, Ecology, Ecological Monographs, Journal of Forestry, and Journal of the Tennessee Academy of Science. We used a computer search available at the University of Tennessee that provided 250 references for the period 1973-1979. Only 18 of these had not been discovered in our manual searches.

In all cases, references were scanned for relevance and for cross-referencing. The bibliographies of included papers were themselves searched. Archival materials (e.g., raw data, correspondence, photos, and maps) are available in the GRSM archives. These were inventoried in the search but are not listed here. Interested researchers should contact Peter White at Uplands Field Research Laboratory.

Cross-referencing was accomplished using a data sheet formatted for direct keypunching at the University of Tennessee. Many of the cross-referencing categories on this data sheet are included here as the main headings of the index. The full scheme is included as Appendix I. The main kinds of information included are form of reference (journal article, thesis, etc.), topic (checklist, community ecology, autecology, etc.), specific reference to GRSM, geographic area treated, vegetation

types treated, relevance to succession and disturbance, relevance to management concerns, and inclusion of data on climate, geology, soils, human impacts, and history.

The index and summary tables were compiled from the cross-referencing forms, using the Statistical Analysis System at the University of Tennessee Computer Center. We have numbered the references in order to make the index less cumbersome. Literature is listed (and hence numbered) alphabetically, except for late additions which appear at the end of the bibliography and are numbered beginning with "2000."

RESULTS AND DISCUSSION

The literature cited in the bibliography spans 19 decades (Table 1). There is a steady increase from the early 1900's (when plant ecology first took shape as a discipline in this country) to the present. Floristic and descriptive material predominated until 1950-1960, when papers on community theory, succession, and ecosystem level processes began to increase. Practically all of the references on such topics as species diversity, productivity and energetics, and nutrient cycling date from 1960. Plant community descriptions have, of course, continued to be published. This is, at least in part, due to the complex nature of Appalachian vegetation. There are, for example, regional differences in the vegetation pattern within the areas considered here. Although such factors as elevation, site moisture, slope aspect, topographic shape, bedrock, and disturbance history adequately explain vegetation pattern on a given site, a highly

predictive model of southern Appalachian vegetation has never been produced. The broad vegetation pattern of the area is, however, well known and has been thoroughly described in the literature; more detailed understanding of specific problems is still possible. Many of the accepted facts of southern Appalachian vegetation (for example, its antiquity) have been disproved by more recent research (see Paleoecology in the index).

A number of recent papers reflect the growing need for management level information. Such issues as European wild boar, deer browsing, rare plant studies, grassy bald succession, pollution monitoring, and balsam woolly aphids have all stimulated research in the past 10 years. Chestnut blight was an earlier concern, but studies of post-blight vegetation change have continued to the present.

Journal articles predominated the literature assembled here but 167 M.S. and Ph.D. theses were also included (Table 2). <u>Castanea</u> (published by the Southern Appalachian Botanical Club) is a highly important outlet for work in this area. Many of the theses are unpublished and represent an important source for understanding the vegetation pattern of this region.

One hundred and seventy-four references (about one-sixth of the total) contain more than a passing reference to GRSM (Table 3). Fully 760 references are completely restricted to the study area in their scope. The most important general theme of the citations is community ecology, followed by floristic descriptions and checklists (Table 4). Within community ecology, descriptions of natural vegetation predominate

(Table 5). References to general vegetation types reflect the abundance of those types in the southern Appalachians, except that research on heath and grassy balds are over-represented since about 10 percent of the vegetation type references cite these communities, even though they occupy much less than 1 percent of the landscape within the park (Table 6). Research on species dynamics, natural disturbance regimes, human impacts, and management and ecosystem processes is at the forefront of this work, and these areas will become an important source of new insights into the southern Appalachian landscape.

Table 1. Number of citations by date. (In this and the following tables, some references could not be placed in any single category; hence, totals for the tables show minor discrepancies.)

Years	Number of Citations	Years	Number of Citations
1800-1809	1	1900-1909	36
1810-1819	1	1910-1919	26
1820-1829	0	1920-1929	48
1830-1839	0	1930-1939	101
1840-1849	1	1940-1949	113
1850-1859	1	1950-1959	141
1860-1869	1	1960-1969	195
1870-1879	1	1970-1979	335
1880-1889	6	1980+	90
1890-1899	19		

Table 2. Number of citations by form of material.

Form	Number of Citations
Journal articles	675
Master's theses	111
Pamphlets	95
Books	80
PhD. dissertations	56
Management Reports	21
Maps	6
Unpublished manuscripts	6
Popular articles	5

Table 3. Geographic area of reference. A reference was placed in the narrowest possible category, starting with "Great Smoky Mountains National Park" and ending with "General" (references containing significant descriptions of Southern Appalachian vegetation embedded in a larger context).

Area	Number of Citations
Great Smoky Mountains (exclusively)	174
Tennessee Mountains	159
North Carolina Mountains	192
Tennessee and North Carolina	21
Southern Appalachian Highlands	207
Southern United States	192
Eastern North America	7 5
General	54

Table 4. General reference type (each reference could be placed in more than one appropriate category).

General Theme	Number of Citations
Community ecology Floristic checklist Autecology	544 222 181
Popular guide Miscellaneous Ecosystem studies	151 128 113
Management reports Biogeography Systematics	96 83 38
Distribution notes Classification keys Taxonomic manuals	21 13 11

Table 5. Number of references by general topic (each reference could be placed in more than one appropriate category).

Topic of Reference	Number of Citations
Natural vegetation	344
Overall landscape patterns	290
Site characteristics, as they effect vegetation	284
Succession	279
Forestry	186
Seasonality	88
Species richness in plots and community types	85
Productivity and energetics	82
Nutrient cycling	59

Table 6. Frequency distribution by vegetation types (each reference could be placed in several appropriate categories).

General Vegetation Class	Number of Citations
Oak	835
Pine	348
Cove hardwoods	307
Spruce-fir	223
Hemlock	191
Northern hardwoods	154
Grassy balds	99
Heath balds	65

LITERATURE CITED

- Blauch, D. S. 1975. Toward a natural delineation of the area known as the Southern Appalachian Highlands. Castanea 40:197-201.
- Evans, M., P. S. White, and C. Pyle. 1981. Southern Appalachian pteridophytes: an indexed bibliography, 1833-1980. USDI, National Park Service, Southeast Region Resources Manage. Rep. No. 44. 35 p.
- Fenneman, N. M. 1938. Physiography of Eastern United States. McGraw-Hill Book Co., New York.
- Johnson, W. C., and S. P. Bratton. 1978. Biological monitoring in UNESCO Biosphere Reserves with special reference to the Great Smoky Mountains National Park. Biol. Conserv. 13:105-115.
- McCrone, J. D., F. C. Huber, and A. S. Stocum. 1982. Great Smoky Mountains Biosphere Reserve: a bibliography of scientific studies. The Southern Appalachian Research/Resource Management Cooperative (SARRMC) and Western Carolina University, Cullowhee, NC. 51 p.
- Rabinowitz, A. Chiroptera of the Great Smoky Mountains: Bibliography with indexes by species and major subject areas. USDI, National Park Service, Southeast Region Res./Resources Manage. Rep. No. SER-56. 24 p.
- SAS Institute. 1979. SAS User's Guide, 1979 ed., Gary, NC.
- Wofford, B. G., and P. S. White. 1981. Systematics and identification of Southern Appalachian phanerogams: an indexed bibliography. USDI, National Park Service, Southeast Region Res./Resources Manage. Rep. No. SER-53. 69 p.

THE INDEX

In preparing the index we have kept brevity and ease of use as the guiding principles. Hence, we have been conservative in listing references under a given topic. For example, articles with only a passing reference to grassy balds are not cross-referenced under the grassy bald heading; rather, only studies specifically addressing that community type are cited. This index may then serve as a beginning to further literature searches. It provides a concise list of references on each topic; the bibliographies of those references can then be searched for additional material.

The index, as noted above, was derived from the cross-referencing forms; however, those forms contain more information than could be published here. Anyone wishing to access the vegetation literature by means of the computerized version of the index should send details of their search requirements to Peter White at Uplands Field Research Laboratory.



BIBLIOGRAPHY OF SOUTHERN APPALACHIAN VEGETATION

- 1. Abell, C. A. 1934. Influence of glaze storms upon hardwood forests in the southern Appalachians. Jour. Forestry 32:35-37.
- 2. Abell, C. A. 1935. Results of 1924 cleanings of cove hardwoods, Pisgah National Forest. Jour. Forestry 33:626-627.
- 3. Adams, C. C. 1902. Southeastern United States as a center of geographic distribution of flora and fauna. Biological Bull. 3:115-131.
- 4. Adams, C. C. 1905. The postglacial dispersal of North American biota. Biological Bull. 9:53-71.
- 5. Airola, T. M. 1977. An assessment of the utility of forest cover type information in land use planning in the southern Appalachians. Ph.D. Dissertation, Duke Univ., Durham, North Carolina. 252 pp.
- 6. Aldrich, R. C. and A. T. Drooz. 1967. Estimated Fraser fir mortality and balsam woolly aphid infestation trend using aerial color photography. Forest Science 13:300-313.
- 7. Allard, H. A. 1942. Lack of available phosphorus preventing succession on small areas on Bull Run Mountain in Virginia. Ecology 23:345-353.
- 8. Allard, H. A. 1944. A list of plants collected at Thompsons Mills, Jackson County, northern Georgia. Castanea 9:135-141.
- 9. Allard, H. A. 1945. A second record for the paper birch, <u>Betula</u> papyrifera, in West Virginia. Castanea <u>10</u>:55-57.
- 10. Allard, H. A. 1946. Shale barren associations on Massanutten Mountain, Virginia. Castanea 11:71-124.
- 11. Allard, H. A. and E. C. Leonard. 1943. The vegetation and floristics of Bull Run Mountain, Virginia. Castanea 8:1-64.
- 12. Allard, H. A. and E. C. Leonard. 1952. The Canaan and the Stony River Valleys of West Virginia, their former magnificent spruce forests, their vegetation and floristics today.

 Castanea 17:1-60.
- 13. Allen, J. C. 1950. Pine planting tests in the Copper Basin. Jour. Tenn. Acad. Sci. 25:199-216.
- 14. Allen, J. C. 1953. A half-century of reforestation in the Tennessee Valley. Jour. Forestry 51:106-113.

- 15. Amman, G. D. and C. F. Speers. 1965. Balsam woolly aphid in the southern Appalachians. Jour. Forestry 63:18-20.
- 16. Anderson, L. E. 1970. Geographical relationships of the mosses of the southern Appalachian Mountains. In P. C. Holt (ed.). The Distributional History of the Biota of the Southern Appalachians. Part II: Flora. Research Division Monograph 2. Virginia Polytechnic Institute and State Univ., Blacksburg, Virginia. 2:101-115.
- 17. Anderson, L. E. and R. H. Zander. 1973. The mosses of the southern Blue Ridge Province and their phyto-geographic relationships. Jour. Elisha Mitchell Sci. Soc. 89:15-60.
- 18. Anderson, S. H. and H. H. Shugart. 1974. Habitat selection of breeding birds in an East Tennessee deciduous forest. Ecology 55:828-837.
- 19. Anderson, W. A. 1947. New distribution records in Kentucky. Castanea 12:50-56.
- 20. Andrews, A. L. 1905. Additions to the bryophytic flora of West Virginia. Bryologist 8:63-65.
- 21. Arthur, J. P. 1914. Western North Carolina; a history (from 1730 to 1913). Published by the Edward Buncombe Chapter of the Daughters of the American Revolution: Asheville, North Carolina. (Flora and Fauna pp. 512-527.) 710 pp.
- 22. Artman, J. O., Jr. 1935. Common forest trees of the Norris Lake region. Tennessee Valley Authority, Norris, Tennessee. 48 pp.
- 23. Artz, L. B. 1937. Plants of the shale banks of the Massanutten Mountains of Virginia. Claytonia 3:45-50; 4:10-15.
- 24. Artz. L. B. and M. Krouse. 1967. A Massanutten Muskeg. Castanea 32:190-191.
- 25. Ashby, W. C. 1964. A note on basswood nomenclature. Castanea 29:109-116.
- 26. Ashe, W. W. 1893. Notes on the forest resources of North Carolina. Jour. Elisha Mitchell Sci. Soc. 10:5-25.
- 27. Ashe, W. W. 1897. Forests of North Carolina. <u>In</u> G. Pinchot and W. W. Ashe (eds.). Timber Trees and Forests of North Carolina. North Carolina Geological Survey Bull. 6:141-224.
- 28. Ashe, W. W. 1902. List of shrubs and some plants which only under the most favorable conditions assume arborescent form. In Theodore Roosevelt's (Senate Document No. 84) Message from the President of the United States: Transmitting a report of the. Secretary of Agriculture in relation to the forests, rivers, and mountains of the southern Appalachian region. Washington, D.C., pp. 107-109.

- 29. Ashe, W. W. 1911. Chestnut in Tennessee. Tennessee Geological Survey Series Bull. 10-B. 35 pp.
- 30. Ashe, W. W. 1918. Note on "Ice storms in the southern Appalachians" by Verne Rhoades. Monthly Weather Review 46:373-374.
- 31. Ashe, W. W. 1919. Additions to the arborescent flora of North Carolina. Jour. Elisha Mitchell Sci. Soc. 34:130-140.
- 32. Ashe, W. W. 1922. Forest types of the Appalachians and White Mountains. Jour. Elisha Mitchell Sci. Soc. 37:183-198.
- 33. Ashe, W. W. and H. B. Ayres. 1902. Trees of the southern Appalachians. In Theodore Roosevelt's (Senate Document No. 84) Message from the President of the United States: Transmitting a report of the Secretary of Agriculture in relation to the forests, rivers, and mountains of the southern Appalachian region. Washington, D. C., pp.93-106.
- 34. Auten, J. T. 1945. Prediction of site index for yellow-poplar from soil and topography. Jour. Forestry 43:662-668.
- 35. Avery, G. E. 1960. Identifying southern forest types on aerial photographs. U. S. Dept. Agric., Forest Service, Southeastern For. Expt. Station, Paper No. 112. 12pp.
- 36. Avery, M. H. and K. S. Boardman. 1938. Arnold Guyot's notes on the geography of the mountain district of western North Carolina. North Carolina Historical Review 15:251-318.
- 37. Ayres, H. B. and W. W. Ashe. 1902a. Description of the southern Appalachian forests by river basins. In Theodore Roosevelt's (Senate Document No. 84) Message from the President of the United States: Transmitting a report of the Secretary of Agriculture in relation to the forests, rivers, and mountains of the southern Appalachian region. Washington, D. C., pp. 69-91.
- 38. Ayres, H. B. and W. W. Ashe. 1902b. Forests and forest conditions in the southern Appalachians. In Theodore Roosevelt's (Senate Document No. 84) Message from the President of the United States: Transmitting a report of the Secretary of Agriculture in relation to the forests, rivers, and mountains of the southern Appalachian region. Washington, D. C., pp. 45-59.
- 39. Ayres, H. B. and W. W. Ashe. 1905. The southern Appalachian forests. U. S. Geological Survey. Professional Paper No. 37. Washington, D. C. 291 pp.
- 40. Bagnell, C. R., Jr. 1969. Twenty-five common mosses of Watauga County, North Carolina. Thesis, Appalachian State Univ., Boone, North Carolina.

- 41. Baker, H. L. 1925. The forests of Lee County, Virginia. In A. W. Giles (ed.). The geology and coal resources of the coal-bearing portion of Lee County, Virginia. Virginia Geological Survey Bull. No. 26. Charlottesville, Virginia, pp. 179-207.
- 42. Balch, R. E. 1928. The influence of the southern pine beetle on forest composition in western North Carolina. M.S. Thesis, Syracuse Univ., Syracuse, New York. 33 pp.
- 43. Ball, J. C. 1949. Association of white pine with other forest tree species and Ribes in the southern Appalachians. Jour. Forestry 47:285-291.
- 44. Banks, W. H. 1953. Ethnobotany of the Cherokee Indians. M.S. Thesis, Univ. of Tennessee, Knoxville.
- 45. Baranski, M. J. 1975. An analysis of variation within white oak (Quercus alba L.). North Carolina Agric. Expt. Station Technical Bull. No. 236. 176 pp.
- 46. Barbour, R. W. and B. L. Barbour. 1950. Notes on the plants of Harlan County, Kentucky. Castanea 15:125.
- 47. Barclay, F. H. 1957. The natural vegetation of Johnson County, Tennessee, past and present. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 147 pp.
- 48. Barden, L. S. 1974. Lightning fires in southern Appalachian forests. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 65 pp.
- 49. Barden, L. S. 1976. Pine reproduction in the Thompson River watershed, North Carolina. Jour. Elisha Mitchell Sci. Soc. 92:110-113.
- 50. Barden, L. S. 1977. Self-maintaining populations of <u>Pinus</u> pungens Lam. in the southern Appalachian mountains.

 Castanea <u>42</u>:316-323.
- 51. Barden, L. S. 1978a. Regrowth of shrubs in grassy balds of the southern Appalachians after prescribed burning. Castanea 43:238-246.
- 52. Barden, L. S. 1979. Serotiny and seed viability of Pinus pungens in the southern Appalachians. Castanea 44:44-47.
- 53. Barden, L. S. and F. W. Woods. 1974. Characteristics of lightning fires in southern Appalachian forests. Proc. Tall Timbers Fire Ecol. Conf. 13:345-361.
- 54. Barden, L. S. and F. W. Woods. 1976. Effects of fire on pine and pine-hardwood forests in the southern Appalachians. Forest Science 22:399-403.

- 55. Barnett, P. E. 1967. Some problems involved in development of early selection criteria for <u>Castanea dentata</u> (Marsh.) Borkh. trees resistant to <u>Endothia parasitica</u> (Murr.) A. & A. M.S. Thesis, Univ. of Tennessee, Knoxville. 68 pp.
- 56. Barnett, R. J. 1976. Interactions between tree squirrels and oaks and hickories: The ecology of seed predation. Ph.D. Dissertation, Duke Univ., Durham, North Carolina. 160 pp.
- 57. Barnett, R. J. 1977. The effect of burial by squirrels on germination and survival of oak and hickory nuts. American Midland Naturalist 98:319-330.
- 58. Baron, J., C. Dombrowski, and S. P. Bratton. 1975. The status of five exotic woody plants in the Tennessee District, Great Smoky Mountains National Park. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP, Management Report No. 2. 26 pp.
- 59. Baron, J. S. and R. C. Mathews, Jr. 1977. Environmental analysis of the proposed foothill parkway. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP, Management Report No. 19. 59 pp.
- 60. Barrett, L. I. 1931. Influence of forest litter on the germination and early survival of chestnut oak, Quercus montana, Willd. Ecology 12:476-484.
- 61. Barrett, L. I. 1933. Growth rate of northern white pine in the southern Appalachians. Jour. Forestry 31:570-572.
- 62. Barrett, L. I. 1934. Growth of Appalachian hardwood forests. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Technical Note No. 2. 2 pp.
- 63. Barrett, L. I., G. M. Jemison, and J. J. Keetch. 1941. A method for appraising forest fire damages in southern Appalachian mountain types. U. S. Dept. Agric., Forest Service.

 Appalachian For. Expt. Station, Technical Note No. 44. 13 pp.
- 64. Bateson, A. R. and H. C. Hitchcock. 1976. TVA continuous forest inventory field manual for county units in the Tennessee Valley. Division of Forestry, Fisheries, and Wildlife Development, Norris. 94 pp.
- 65. Baxter, D. V. and L. S. Gill. 1931. Deterioration of chestnut in the southern Appalachians. U. S. Dept. Agric., Technical Bull. No. 257. 21 pp.
- 66. Beck, D. E. 1962. Yellow-poplar site index curves. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station, Research Note No. 180. 2 pp.

- 67. Becking, R. W. and J. S. Olson. 1978. Remeasurement of permanent vegetation plots in the Great Smoky Mountains National Park, Tennessee, USA, and the implications of climatic changes on vegetation. Oak Ridge National Lab., Environmental Sciences Division. Publication No. 1111, ORNL-TM-6083. 98 pp.
- 68. Beetham, N. M. 1958. Pollen studies of forest and bald soils from the mountains of North Carolina. M.S. Thesis, Duke Univ., Durham, North Carolina.
- 69. Belden, R. C. 1972. Rooting and wallowing activities of the European wild hog (Sus scrofa) in the mountains of east Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 68 pp.
- 70. Belden, R. C. and M. R. Pelton. 1975. European wild hog rooting in the mountains of east Tennessee. Proc. Annual Conference Southeast Assoc. Game and Fish Comm. 29:665-671.
- 71. Bentley, B. H. 1938. Fire damage to old stands in northern Tennessee. Jour. Forestry 36:610-611.
- 72. Berry, C. R. 1961. White pine emergence tipburn, a physiogenic disturbance. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station Paper No. 130. Asheville, North Carolina. 8 pp.
- 73. Beyer, W. N. 1975. Letters to the Editors; Types of seed dispersal: Their effects on species diversity of trees.

 American Naturalist 109:103-104.
- 74. Bieri, R. and S. F. Anliot. 1965. The structure and floristic composition of a virgin hemlock forest in West Virginia. Castanea 30:205-226.
- 75. Billings, W. D. 1938. The structure and development of old field shortleaf pine stands and certain associated physical properties of the soil. Ecological Monographs 8:437-499.
- 76. Billings, W. D. and L. E. Anderson. 1966. Some microclimate characteristics of habitats of endemic and disjunct bryophytes in the southern Blue Ridge. The Bryologist 69:76-95.
- 77. Billings, W. D., S. A. Cain, and W. B. Drew. 1937. Winter key to the trees of eastern Tennessee. Castanea 2:29-44.
- 78. Billings, W. D. and W. B. Drew. 1938. Bark factors affecting the distribution of corticolous bryophyte communities. American Midland Naturalist 20:302-330.
- 79. Billings, W. D. and A. F. Mark. 1957. Factors involved in the persistence of montane treeless balds. Ecology 38:140-142.

- 80. Bishop, G. N. 1940. Native trees of Georgia. Georgia Department of Natural Resources, Forestry Division. In cooperation with the United States Department of Agriculture, Forest Service. 96 pp.
- 81. Biswell, H. H. and M. D. Hoover. 1945. Appalachian hardwood trees browsed by cattle. Jour. Forestry 43:675-676.
- 82. Blauch, D. S. 1975. Toward a natural delineation of the area known as the southern Appalachian Highlands. Castanea 40:197-201.
- 83. Blow, F. E. 1955. Quantity and hydrologic characteristics of litter under upland oak forests in eastern Tennessee. Jour. Forestry 53:190-195.
- 84. Bogucki, D. J. 1970. Debris slides and related flood damage with the September 1, 1951, cloudburst in the Mt. LeConte-Sugarland Mountain Area, Great Smoky Mountains National Park. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 165 pp.
- 85. Bogucki, D. J. 1972. Intense rainfall in the Great Smoky Mountains National Park. Jour. Tenn. Acad. Sci. 47:93-97.
- 86. Bormann, F. H. and R. B. Platt. 1958. A disjunct stand of hemlock in the Georgia Piedmont. Ecology 39:16-23.
- 87. Boufford, D. E. and J. R. Massey. 1976. <u>Isopyrum biternatum</u> (Raf.) T.& G. (Ranunculaceae) new to Virginia and its distribution east of the Appalachian Mountains. Rhodora 78:790-791.
- 88. Boufford, D. E. and E. L. Wood. 1975. Natural areas of the southern Blue Ridge. A report to Highlands Biological Station, Inc. Highlands, North Carolina, 28741. 160 pp.
- 89. Boufford, D. E. and E. W. Wood. 1977. An unusual plant community in South Carolina. Castanea 42:116-119.
- 90. Boyce, J. S., Jr. 1957. Oak wilt spread and damage in the southern Appalachians. Jour. Forestry 55:499-505.
- 91. Boyce, S. G. and R. E. Parry. 1958. Effect of seed-bed conditions on yellow poplar regeneration. Jour. Forestry <u>56</u>:751-753.
- 92. Bratton, S. P. 1974. The effect of the European wild boar (Susscrofa) on the high-elevation vernal flora in Great Smoky Mountains National Park. Bull. Torrey Botanical Club 101:198-206.
- 93. Bratton, S. P. 1975a. A comparison of the beta diversity functions of the overstory and herbaceous understory of a deciduous forest. Bull. Torrey Botanical Club 102:55-60.

- 94. Bratton, S. P. 1975b. The effect of the European wild boar (Sus scrofa) on gray beech forest in the Great Smoky Mountains. Ecology 56:1356-1366.
- 95. Bratton, S. P. 1975c. The structure and diversity of herbaceous understory communities in a temperate deciduous forest. Ph.D. Dissertation, Cornell Univ., Ithaca, New York. 332 pp.
- 96. Bratton, S. P. 1976a. Resource division in an understory herb community: Responses to temporal and micro-topographic gradients. American Naturalist 110:679-693.
- 97. Bratton, S. P. 1976b. The response of understory herbs to soil depth gradients in high and low diversity communities. Bull. Torrey Botanical Club 103:165-172.
- 98. Bratton, S. P. 1977. The effect of the European wild boar on the flora of the Great Smoky Mountains National Park. In G. W. Wood (ed.). Research and Management of Wild Hog Populations, Proc. of a Symposium. Belle W. Baruch Forest Service Institute, Clemson Univ., Georgetown, South Carolina, pp.47-52.
- 99. Bratton, S. P. 1980. Impacts of white-tailed deer on the vegetation of Cades Cove, Great Smoky Mountains National Park. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP. Report for the Superintendent. 36 pp.
- 100. Bratton, S. P., M. G. Hickler, and J. H. Graves. 1979. Trail erosion patterns in Great Smoky Mountains National Park. Environmental Management 3:431-445.
- 101. Bratton, S. P. and P. L. Whittaker. 1977. Great Smoky Mountains National Park: Disturbance and visitation on Mt. LeConte. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GRSM, Report for Superintendent. 59 pp.
- 102. Braun, E. L. 1935. The vegetation of Pine Mountain, Kentucky. American Midland Naturalist 16:517-565.
- 103. Braun, E. L. 1936. Notes on Kentucky plants I. Castanea 1:41-45.
- 104. Braun, E. L. 1937a. A remarkable colony of coastal plain plants on the Cumberland Plateau in Laurel County, Kentucky. American Midland Naturalist 18:363-366.
- 105. Braun, E. L. 1937b. Some relationships of the flora of the Cumberland Plateau and Cumberland Mountains in Kentucky. Rhodora 39:193-208.
- 106. Braun, E. L. 1938. Deciduous forest climaxes. Ecology 19:515-522.
- 107. Braun, E. L. 1939. Notes on Kentucky plants II. Castanea 4:127-131.

- 108. Braun, E. L. 1940a. An ecological transect of Black Mountain, Kentucky. Ecological Monographs 10:193-241.
- 109. Braun, E. L. 1940b. Mixed deciduous forests of the Appalachians. Virginia Jour. Sci. 1:1-4.
- 110. Braun, E. L. 1940c. New plants from Kentucky. Rhodora 42:47-51.
- 111. Braun, E. L. 1941a. The differentiation of the deciduous forest of the eastern United States. Ohio Jour. Sci. 41:235-241.
- 112. Braun, E. L. 1941b. Notes on Kentucky plants III. Castanea 6:10-12.
- 113. Braun, E. L. 1941c. Notes on Kentucky plants IV. Castanea $\underline{6}$:28-30.
- 114. Braun, E. L. 1941d. Notes on Kentucky plants V. Castanea $\underline{6}$:137-140.
- 115. Braun, E. L. 1942a. Forests of the Cumberland Mountains. Ecological Monographs 12:414-447.
- 116. Braun, E. L. 1942b. Notes on Kentucky plants VI. The genus Solidago in Kentucky. Castanea 7:7-10.
- 117. Braun, E. L. 1943. An annotated catalog of spermatophytes of Kentucky. J. S. Swift Co., Inc: Cincinnati, Ohio. 161 pp.
- 118. Braun, E. L. 1947. Development of the deciduous forests of eastern North America. Ecological Monographs 17:211-219.
- 119. Braun, E. L. 1950. Deciduous forests of eastern North America.
 Blakiston Co.: Philadelphia, Pennsylvania. 596 pp.
- 120. Braun, E. L. 1951. Plant distribution in relation to the glacial boundary. Ohio Jour. Sci. <u>51</u>:139-146.
- 121. Braun, E. L. 1955. The phytogeography of unglaciated United States and its interpretation. Botanical Review 21:297-375.
- 122. Britton, E. G. 1886. Botanical notes in the great valley of Virginia and in the southern Alleghanies. Bull. Torrey Botanical Club 13:69-76.
- 123. Brooks, A. B. 1937. Castanea dentata. Castanea <u>2</u>:61-67.
- 124. Brown, D. M. 1938. The vegetation of Roan Mountain: An ecological study. Ph.D. Dissertation, Duke Univ., Durham, North Carolina. 152 pp.
- 125. Brown, D. M. 1941. Vegetation of Roan Mountain: A phytosociological and successional study. Ecological Monographs 11:61-97.

- 126. Brown, D. M. 1953. Conifer transplants to a grassy bald on Roan Mountain. Ecology 34:614-617.
- 127. Brown, R. G. and M. L. Brown. 1972. Woody plants of Maryland.
 Port City Press: Baltimore, Maryland. 347 pp.
- 128. Bruce, P. A. 1896. Economic history of Virginia in the seventeenth century. Two volumes. Macmillan and Co., New York, pp. 71-139.
- 129. Bruhn, M. E. 1964. Vegetational succession on three grassy balds of the Great Smoky Mountains. M.S. Thesis, Univ. of Tennessee, Knoxville. 84 pp.
- 130. Bruner, E. M. 1925. The marketing and utilization of the remaining stand of chestnut in North Carolina. <u>In</u> Chestnut and the chestnut blight in North Carolina. North Carolina Geological and Economic Survey Paper No. 56, pp. 18-23.
- 131. Bryan, M. B. 1958. Forest statistics for the mountain region of Virginia, 1957. U. S. Dept. Agric., Forest Service.

 Appalachian For. Expt. Station, Forest Survey Release No. 52. 52 pp.
- 132. Buckley, S. B. 1859. Mountains of North Carolina and Tennessee.

 American Jour. of Science and Arts (Second Series) 27:286-294.
- 133. Buckner, E. and W. McCracken. 1978. Yellow poplar: A component of climax forests? Jour. Forestry 76:421-423.
- 134. Buell, J. H. 1928. What can be done with southern Appalachian cut-over areas? Southern Lumberman (December 22, 1928).
- 135. Buell, J. H. 1938. List of specimens in the station herbarium. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Technical Note No. 30. 9 pp.
- 136. Burton, J. D. 1960 Virginia pine growth potential on the Cumberland Plateau. Southern Lumberman (June 15, 1960) 200:44.
- 137. Burton, J. D. 1964. Twenty years of growth of the Norris watershed plantations. Jour. Forestry 62:392-397.
- 138. Burton, J. D. and M. W. Gwinner. 1960. Plateau pines weather ordeal by ice. Southern Lumberman (December 15, 1960) 201:106-108.
- 139. Buttrick, P. L. 1925. Chestnut in North Carolina. <u>In</u> Chestnut and the chestnut blight in North Carolina. North Carolina Geological and Economic Survey Paper No. 56, pp. 7-10.
- 140. Buttrick, P. L., E. H. Frothingham, G. F. Gravatt, and E. M. Bruner. 1925. Chestnut and the chestnut blight in North Carolina. North Carolina Geological and Economic Survey, Economic Paper No. 56. Raleigh, North Carolina.

- 141. Byrne, J. G., C. R. Gass, and C. K. Losche. 1965. Relation of forest composition to certain soils in the southern Appalachian Plateau. In C. T. Youngberg (ed.), Forest-Soil Relationships in North America. Oregon State Univ. Press, Corvallis, pp. 199-214.
- 142. Cabrera, H. 1969. Patterns of species segregation as related to topographic form and aspect. M.S. Thesis, Univ. of Tennessee, Knoxville. 111 pp.
- 143. Cain, S. A. 1930a. Certain floristic affinities of the trees and shrubs of the Great Smoky Mountains and vicinity. Butler Univ. Botanical Studies 1:129-150.
- 144. Cain, S. A. 1930b. An ecological study of the heath balds of the Great Smoky Mountains. Butler Univ. Botanical Studies 1:177-208.
- 145. Cain, S. A. 1930c. The vegetation of the Great Smoky Mountains:
 An ecological study. Ph.D. Dissertation, Univ. of Chicago.
 Chicago, Illinois. 145 pp.
- 146. Cain, S. A. 1931. Ecological studies of the vegetation of the Great Smoky Mountains of North Carolina and Tennessee. I. Soil reaction and plant distribution. Botanical Gazette 91:22-41.
- 147. Cain, S. A. 1935a. Ecological studies of the vegetation of the Great Smoky Mountains. II. The quadrat method applied to sampling spruce and fir forest types. American Midland Naturalist 16:566-584.
- 148. Cain, S. A. 1935b. Trees grow on stilts in Great Smoky Mountains. Science News Letter 28:125.
- 149. Cain, S. A. 1936. Ecological work on the Great Smoky Mountain region. Castanea 1:25-32.
- 150. Cain, S. A. 1940. An interesting behavior of yellow birch in the Great Smoky Mountains. The Chicago Naturalist 3:20-21.
- 151. Cain, S. A. 1943. The tertiary character of the cove hardwood forests of the Great Smoky Mountains National Park. Bull. Torrey Botanical Club 70:213-235.
- 152. Cain, S. A. 1945. A biological spectrum of the flora of the Great Smoky Mountains National Park. Butler Univ. Botanical Studies 7:11-24.
- 153. Cain, S. A. and J.D.O. Miller. 1933. Leaf structure of Rhododendron catawbiense Michx. grown in Picea-Abies forest and health communities. American Midland Naturalist 14:69-82.

- 154. Cain, S. A. and A. J. Sharp. 1938. Bryophytic unions of certain forest types of the Great Smoky Mountains. American Midland Naturalist 20:249-301.
- 155. Cameron, M. R., 111, and J. E. Winstead. 1978. Structure and composition of a climax mixed mesophytic forest system in Laurel County, Kentucky. Trans. Kentucky Acad. Sci. 39:1-11.
- 156. Camp, W. H. 1931. The grass balds of the Great Smoky Mountains of Tennessee and North Carolina. Ohio Jour. Sci. 31:157-164.
- 157. Camp, W. H. 1936. On Appalachian trails. Jour. New York Bot. Garden 37:249-265.
- 158. Camp, W. H. 1950. A biogeographic and paragenetic analysis of the American beech <u>Fagus</u>. Amer. Phil. Soc. Yearbook <u>1950</u>: 166-169.
- 159. Campbell, W. A. 1937. Decay hazard resulting from ice damage to northern hardwoods. Jour. Forestry 35:1156-1158.
- 160. Caplenor, C. D. 1954. The vegetation of the gorges of the Fall Creek Falls State Park in Tennessee. Ph.D. Dissertation, Vanderbilt Univ., Nashville, Tennessee. 165 pp.
- 161. Caplenor, C. D. 1955. An annotated list of the vascular plants of the gorges of the Fall Creek Falls State Park. Jour. Tenn. Acad. Sci. 30:93-108.
- 162. Caplenor, C. D. 1965. The vegetation of the gorges of the Falls Creek Falls State Park in Tennessee. Jour. Tenn. Acad. Sci. 40:27-39.
- 163. Caplenor, C. D. 1979. Woody plants of the gorges of the Cumberland Plateau and adjacent Highland Rim. Jour. Tenn. Acad. Sci. 54:139-145.
- 164. Carpenter, S. B. 1976. Stand structure of a forest in the Cumberland Plateau of eastern Kentucky fifty years after logging and burning. Castanea 41:325-337.
- 165. Carpenter, S. B. and R. L. Ramsey. 1976. Trees and shrubs of Robinson Forest, Breathitt County, Kentucky. Castanea 41:277-282.
- 166. Carr. L. G. 1938. Further notes on coastal floral elements in Augusta County bogs, Virginia. Amer. Jour. of Botany 25:22s.
- 167. Carr, L. G. 1940. On the residual interpretation of coastal floras in the Appalachian uplands of eastern United States. New Phytologist 39:129-132.

- 168. Carr, L. G. 1965. Floristic elements in southwestern Virginia:
 A phytogeographical consideration. Castanea 30:105-145.
- 169. Carroll, G. 1945. The bryophytes of the Appalachian Plateau in northern Georgia. Bryologist 48:11-24.
- 170. Carvell, K. L. and C. F. Korstian. 1955. Production and dissemination of yellow poplar seed. Jour. Forestry 53:169-170.
- 171. Carvell, K. R. and E. H. Tryon. 1959. Herbaceous vegetation and shrubs characteristic of oak sites in West Virginia.

 Castanea 24:39-43.
- 172. Carvell, K. L. and E. H. Tryon. 1961. The effect of environmental factors on the abundance of oak regeneration beneath mature oak stands. Forest Science 7:98-105.
- 173. Carvell, K. L., E. H. Tryon, and R. P. True. 1957. Effects of glaze on the development of Appalachian hardwoods. Jour. Forestry 55:130-132.
- 174. Castro, P. A. 1969. A quantitative study of the subalpine forest of Roan and Bald Mountains in the southern Appalachians.

 M.S. Thesis, East Tennessee State Univ., Johnson City,
 Tennessee. 60 pp.
- 175. Cathey, T. A. 1955. A geographic study of the forest industries in southwestern North Carolina. Bull. Western Carolina College Faculty Studies 32:24-30.
- 176. Chapman, J. A. 1957. The natural vegetation of English Mountain, Tennessee. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 103 pp.
- 177. Ciesla, W. M., J. C. Bell, Jr., and J. W. Curlin. 1967. Color photographs and the southern pine beetle. Photogr. Engr. 33:883-888.
- 178. Clapper, R. B. 1950. Breeding new chestnuts for southern forests. Forest Farmer $\underline{9}(11)$:8
- 179. Clapper, R. B. and G. F. Gravatt. 1943. The American chestnut:

 Its past, present and future. Southern Lumberman 167:227-229.
- 180. Clark, R. C. 1966. The vascular flora of the Fiery Gizzard Gorges in south-central Tennessee. M.A. Thesis, Univ. of North Carolina, Chapel Hill. 89 pp.
- 181. Clark, R. C. 1974. <u>Ilex collina</u>, a second species of <u>Nemopanthus</u> in the southern <u>Appalachians</u>. Harvard Univ. Arnold Arboretum <u>55</u>:435-440.

- 182. Clark, T. G. 1954. Survival and growth of 1940-41 experimental plantings in the spruce type in West Virginia. Jour. Forestry 52:427-431.
- 183. Clarkson, R. B. 1966. Vascular flora of Monongahela National Forest, West Virginia. Castanea 31:1-119.
- 184. Cocke, E. C. 1974. Trees and shrubs of North Carolina. Published by the author. Winston-Salem, North Carolina. 186 pp.
- 185. Coker, W. C. 1909. Additions to the flora of the Carolinas. Bull. Torrey Botanical Club 36:635-638.
- 186. Coker, W. C. and H. R. Trotten. 1916. The trees of North Carolina. Published by the authors, Chapel Hill, North Carolina. 106 pp.
- 187. Cooley, E. H. 1954. A study of plant distribution patterns at a mid-altitude location in the Great Smoky Mountains National Park. M.S. Thesis, Univ. of Tennessee, Knoxville. 56 pp.
- 188. Cooper, A. W. 1963. A survey of the vegetation of the Toxaway River gorge with some remarks about early botanical explorations and an annotated list of the vascular plants of the gorge area. Jour. Elisha Mitchell Sci. Soc. 79:1-22.
- 189. Cooper, A. W. 1979. The natural vegetation of North Carolina. <u>In</u>
 Proc. of the 16th International Phytogeographers Excursion
 (IPE) 1978, through the southeastern United States. <u>1</u>:70-78.
- 190. Cooper, A. W. and J. W. Hardin. 1970. Floristics and vegetation of the gorges of the southern Blue Ridge escarpment. In P. C. Holt (ed.). The Distributional History of the Biota of the Southern Appalachians. Part II: Flora. Research Division Monograph 2. Virginia Polytechnic Institute and State Univ., Blacksburg, Virginia. 2:291-330.
- 191. Cooper, A. W. and E. P. Mercer. 1977. Morphological variation in Fagus grandifolia Ehrh. in North Carolina. Jour. Elisha Mitchell Sci. Soc. 93:136-149.
- 192. Cooperrider, T. S. and R. F. Thorne. 1964. The flora of Giles County, Virginia. II. Castanea 29:46-70.
- 193. Cope, J. A. 1932. Northern white pine in the southern Appalachians. Jour. Forestry 30:821-828.
- 194. Core, E. L. 1929. Plant ecology of Spruce Mountain, West Virginia. Ecology 10:1-13.
- 195. Core, E. L. 1932. Some aspects of the phytogeography of West Virginia. Torreya 32:65-71.

- 196. Core, E. L. 1934. The blister pine in West Virginia. Torreya 34:92-93.
- 197. Core, E. L. 1937. Spring foray to Blackwater Falls and Spruce Knob, West Virginia. Castanea 2:87-88.
- 198. Core, E. L. 1938a. The genus <u>Carex</u> in West Virginia. Proc. West Virginia Acad. Sci. 11:29-43.
- 199. Core, E. L. 1938b. Plant migrations and vegetational history of the southern Appalachian region. Lilloa 3:5-29.
- 200. Core, E. L. 1939. The flora of Roaring Plains, West Virginia. Proc. West Virginia Acad. Sci. 12:33-35.
- 201. Core, E. L. 1940a. A catalogue of the vascular plants of West Virginia. Castanea 5:31-73.
- 202. Core, E. L. 1940b. The shale barren flora of West Virginia. West Virginia Univ. Bull. 14:27-36.
- 203. Core, E. L. 1940c. Travels of Asa Gray in western Virginia, 1843. Rhodora 42:344-351.
- 204. Core, E. L. 1943. Botanizing in the higher Alleghenies. Scientific Monthly 57:119-125.
- 205. Core, E. L. 1949. Original treeless areas in West Virginia. Jour. Elisha Mitchell Sci. Soc. 65:306-310.
- 206. Core, E. L. 1950. Notes on the plant geography of West Virginia. Castanea <u>15</u>:61-79.
- 207. Core, E. L. 1952a. Botanizing on Panther Knob, West Virginia. Wild Flower 28:35-38.
- 208. Core, E. L. 1952b. Ranges of some plants of the Appalachian shale barrens. Castanea 17:105-116.
- 209. Core, E. L. 1955. Cranberry Glades natural area. Wild Flower 31:65-81.
- 210. Core, E. L. 1970. The botanical exploration of the southern Appalachians. In P. C. Holt (ed.). The Distributional History of the Biota of the southern Appalachians. Part II: Flora. Research Division Monograph 2. Virginia Polytechnic Institute and State Univ., Blacksburg, Virginia. 2:1-65.
- 211. Core, E. L. and H. A. Davis. 1942. Additions to the catalogue of the vascular plants of West Virginia: I. Proc. West Virginia Acad. Sci. 15:73-76.

- 212. Cornaby, B. W. and J. B. Waide. 1973. Nitrogen fixation in decaying chestnut logs. Plant and Soil 39:445-448.
- 213. Cost, N. D. 1975. Forest statistics for the mountain region of North Carolina, 1974. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station, Resource Bull. No. SE-31. 33 pp.
- 214. Coulter, S. 1900. Some mid-summer plants of southeastern Tennessee. Proc. Indianapolis Acad. of Sci. 1900:143-147.
- 215. Cowan, W. F. 1946. The forest resources of Tennessee. American Forestry Association and the Tennessee Conservation Department--Forestry Division. Nashville, Tennessee. 34 pp.
- 216. Cox, D. C. 1968. A late-glacial pollen record from the West Virginia-Maryland border. Castanea 33:137-149.
- 217. Craig, A. J. 1969. Vegetational history of the Shenandoah Valley, Virginia. In United States Contribution to Quaternary Research. Geological Soc. of America Spec. Paper No. 123:283-296.
- 218. Crandall, D. L. 1957. Ground vegetation patterns of the sprucefir area of the Great Smoky Mountains National Park. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 117 pp.
- 219. Crandall, D. L. 1958. Ground vegetation patterns of the sprucefir area of the Great Smoky Mountains National Park. Ecological Monographs 28:337-360.
- 220. Crandall, D. L. 1960. Ground vegetation patterns of the sprucefir area of the Great Smoky Mountains National Park. Virginia Jour. Sci. 11:9-18.
- 221. Crandall, D. L. 1965. Ecological studies in the Great Smoky Mountains. Association of Southeastern Biologists Bull. 12:63-65.
- 222. Crandell, A. E. 1977. A study of Jones Gap, South Carolina: Floristic and some ecological considerations. M.S. Thesis, Univ. of South Carolina, Columbia.
- 223. Creasy, W. D. 1954. Secondary succession and growth of yellow poplar on the "Green Mountain" Nicholas County, West Virginia. Castanea 19:81-87.
- 224. Creek, R. O. 1963. The floristics and ecology of Bald Knob, Pocahontas County, West Virginia. M.S. Thesis, West Virginia Univ., Morgantown.

- 225. Cristofolini, G. and S. M. Cristofolini. 1967. Phytosociological study of some <u>Liriodendron tulipifera</u> L. forests of Tennessee, U.S.A. Giornale Botanico <u>Italiano 101</u>:317-346.
- 226. Cruickshank, J. W. 1941. Forest resources of the mountain region of North Carolina. U. S. Dept. Agric., Forest Service, Appalachian For. Expt. Station, Forest Survey Release No. 7. 55 pp.
- 227. Culberson, W. L. 1958. Variation in the pine-inhabiting vegetation of North Carolina. Ecology 39:23-28.
- 228. Curlin, J. W. and D. J. Nelson. 1968. Walker Branch Watershed Project: Objectives, facilities, and ecological characteristics. Oak Ridge National Lab., TM-2271.
- 229. Curtis, M. A. 1843. An account of some new and rare plants of North Carolina. American Jour. of Science and Arts 44:80-84.
- 230. Curtis, M. A. 1860. Geological and natural history of North Carolina, Part III: Botany. W. W. Holden, State Printer, Raleigh, North Carolina. 158 pp.
- 231. Daniels, J. 1941. War scars the mountains; Digging laurel roots in North Carolina. Nation 153:255.
- 232. Darlington, H. C. 1943. Vegetation and substrate of Cranberry Glades, West Virginia. Botanical Gazette 104:371-393.
- 233. Daubenmire, R. F. 1930. The relation of certain ecological factors to the inhibition of forest floor herbs under hemlock.

 Butler Univ. Botanical Studies 1:61-76.
- 234. Daubenmire, R. F. 1954. Alpine timberlines in the Americas and their interpretation. Butler Univ. Botanical Studies 11:119-136.
- 235. Davies, P. A. 1953. The status of floristic studies in Kentucky.

 Trans. Kentucky Acad. Sci. 14:49-58.
- 236. Davis, J. H., Jr. 1929. Vegetation of the Black Mountains of North Carolina. Ph.D. Dissertation, Univ. of Chicago. Chicago, Illinois. 130 pp.
- 237. Davis, J. H., Jr. 1930. Vegetation of the Black Mountains of North Carolina: An ecological study. Jour. Elisha Mitchell Sci. Soc. 45:291-318.
- 238. Davis, M. C. 1966. Forests of the Smokies. Living Wilderness 30:6-9.
- 239. Davis, W. H. and R. W. Barbour. 1978. Kentucky's high country—a biological treasure. Trans. Kentucky Acad. Sci. 39:138-141.

- 240. Day, F. P., Jr. 1971. Vegetation of a hardwood watershed at Coweeta. M.S. Thesis, Univ. of Georgia, Athens.
- 241. Day, F. P., Jr. 1974. Primary production and nutrient pools in the vegetation of a southern Appalachian watershed. Ph.D. Dissertation, Univ. of Georgia, Athens.
- 242. Day, F. P., Jr., and C. D. Monk. 1974. Vegetation patterns on a southern Appalachian watershed. Ecology <u>55</u>:1064-1074.
- 243. Day, F. P., Jr., and C. D. Monk. 1977a. Net primary production and phenology on a southern Appalachian watershed. American Jour. Botany 64:1117-1125.
- 244. Day, F. P., Jr., and C. D. Monk. 1977b. Seasonal nutrient dynamics in the vegetation on a southern Appalachian watershed. American Jour. Botany 64:1126-1139.
- 245. De Friese, L. H. 1884. Timbers of the North Cumberland: Bell and Harlan Counties, Kentucky. <u>In</u> Kentucky Geological Survey (Timber and Botany-B), pp. 79-102.
- 246. Degelius, G. 1941. Contributions to the lichen flora of North America 2. The lichen flora of the Great Smoky Mountains. Arkiv. Fur Botanik, Band 30 A N:O 3 (Sweden). 80 pp.
- 247. DeLapp, J. A. 1978. Gradient analysis and classification of the high elevation red oak community of the southern Appalachians. M.S. Thesis, North Carolina State Univ., Raleigh.
- 248. Della-Bianca, L. 1969. Intensive cleaning increases sapling growth and browse production in the southern Appalachians. U. S. Dept. of Agric., Forest Service. Southeastern For. Expt. Station, Forest Research Note No. SE-110. 6 pp.
- 249. Della-Bianca, L. 1975. An intensive cleaning of mixed hardwood saplings--10 year results from the southern Appalachians.

 Jour. Forestry 73:25-28.
- 250. Della-Bianca, L. and F. M. Johnson. 1965. Effect of an intensive cleaning on deer-browse production in the southern Appalachians. Jour. Wildlife Management 29:729-733.
- 251. Della-Bianca, L. and C. E. McGee. 1972. Reaction of natural Rhododendron maximum L. to liming in the southern Appalachians. Jour. Elisha Mitchell Sci. Soc. 88:109-112.
- 252. DeSelm, H. R., C. C. Amundsen, and P. F. Krumpe. 1972a. Remote sensing of the Appalachian wildland resources. Proc. Conf. Earth Resources Observation and Information Analysis System. Univ. of Tennessee Space Institute, Tullahoma, Tennessee. Remote Sensing of Earth Resources 1:193-205.

- 253. DeSelm, H. R. and G. M. Clark. 1975. Final report: Potential natural landmarks of the Appalachian Plateaus Province of Alabama, Georgia, southern Kentucky and Tennessee. Prepared for the Appalachian Potential National Landmark Program of West Virginia Univ., Morgantown. Processed report, Univ. of Tennessee, Knoxville. 676 pp.
- 254. DeSelm, H. R., E. E. Clebsch, G. M. Nichols, and E. Thor. 1974.

 Behavior of the herb, shrub, and seedling layer in controlled burn hardwoods in middle Tennessee. Proc. Tall Timbers Fire Ecol. Conf. 13:331-344.
- 255. DeSelm, H. R., W. H. Martin, and E. Thor. 1978. The forest vegetation of Wilson Mountain, Tennessee. In P. E. Pope (ed.). Central Hardwoods Forest Conference II, Proceedings. Purdue Univ., West Lafayette, Indiana, pp. 23-38.
- 256. DeSelm, H. R. and T. W. Taylor. 1973. Vegetation boundaries on ERTS-1 imagery. In Remote Sensing of Earth Resources II:925-933. (Technical papers selected from the Conference on Earth Resources Observation and Information Analysis System).
- 257. DeSelm, H. R., P. B. Whitford, and J. S. Olson. 1969. The barrens of the Oak Ridge Area, Tennessee. American Midland Naturalist 81:315-330.
- 258. DeVore, J. E. 1972. Fraser fir in the Unicoi Mountains. Castanea 37:148-149.
- 259. Dey, J. P. 1978. Fruticose and foliose lichens of the high mountain areas of the southern Appalachians. Bryologist 81:1-93.
- 260. Dey, J. P. 1979. Notes on fruticose and foliose lichen flora of North Carolina and adjacent mountain areas. In Proceedings of the 16th International Phytogeographers Excursion (IPE) 1978, through the southeastern United States. 1:185-205.
- 261. DeYoung, H. R. 1979. The white pine-hardwood vegetation types of the Great Smoky Mountains National Park. M.S. Thesis, Univ. of Tennessee, Knoxville. 190 pp.
- 262. Dickson, R. R. 1960. Some climate-altitude relationships in the southern Appalachian Mountain region. Bull. Amer. Meteorological Soc. 40:352-359.
- 263. Dixon, J. C. and E. A. Osgood. 1961. Southern pine beetle: A review of present knowledge. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station Paper No. 128. 34 pp.
- 264. Donley, D. E. and R. L. Mitchell. 1939. The relation of rainfall to elevation in the southern Appalachian region. Trans. American Geoph. Un. 20:711-721.

- 265. Doolittle, W. T. 1957. Site index of scarlet and black oak in relation to southern Appalachian soil and topography. Forest Science 3:114-124.
- 266. Doolittle, W. T. 1958. Site index comparisons for several forest species in the southern Appalachians. Soil Sci. Soc. of Amer. Proc. 22:455-458.
- 267. Downs, A. A. 1943a. Minimizing glaze damage in pine. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Technical Note No. 55. 5 pp.
- 268. Downs, A. A. 1943b. Response of eastern white pine reproduction in the southern Appalachians to liberation. Jour. Forestry 41:279-281.
- 269. Downs, A. A. 1944. Estimating acorn crops for wildlife in the southern Appalachians. Jour. Wildlife Management 8:339-340.
- 270. Downs, A. A. and W. E. McQuilken. 1944. Seed production of southern Appalachian oaks. Jour. Forestry 42:913-920.
- 271. Duerr, W. A. 1951. Forest statistics for eastern Tennessee.
 U. S. Dept. Agric., Forest Service. Southeastern For. Expt.
 Station, Forest Survey Release No. 66. 25 pp.
- 272. Dugger, S. M. 1892. The Balsam Groves of the Grandfather Mountains. J. B. Lippincott: Philadelphia, Pennsylvania. 187p. Journal of André Michaux. p. 144-160.
- 273. DuMond, D. M. 1969. Floristic and vegetational survey of the Chattooga River Gorge. M.S. Thesis, North Carolina State Univ., Raleigh.
- 274. DuMond, D. M. 1970. Floristic and vegetational survey of the Chattooga River Gorge. Castanea 35:201-244.
- 275. Duncan, W. H. 1950. Preliminary reports on the flora of Georgia. II. The distribution of 87 trees. American Midland Naturalist 43:742-761.
- 276. Duncan, W. H. 1967. Woody vines of the southeastern states. Sida 3:1-76.
- 277. Duncan, W. R. 1933. Ecological comparison of leaf structures of Rhododendron punctatum Andr. American Midland Naturalist 14:83-96.
- 278. Dunwoody, D. A. 1977. A study of the vegetation in the Ekaneetlee blowdown in the Great Smoky Mountains. Independent Study, Biology Department, Maryville College. Maryville, Tennessee.

- 279. Eagar, C. C. 1978. Distribution and characteristics of balsam woolly aphid infestations in the Great Smoky Mountains.

 M.S. Thesis, Univ. of Tennessee, Knoxville. 72 pp.
- 280. Edens, L. L. and S. W. Ash. 1969. The development of a white pine stand in a bog environment at Cranberry Glades, West Virginia. Castanea 34:204-210.
- 281. Eggleston, W. W. 1908. A trip to Mount Mitchell. Vermont Botanical Club Bull. 3:40-42.
- 282. Egler, F. E. 1961. A cartographic guide to selected regional literature: Where plant communities have been described.
 Part II. Southeastern United States. Saracenia Volume 6.
- 283. Ellertsen, B. W., C. J. Powell, and C. L. Massey. 1972. Report on study of diseased white pine (Pinus strobus L.) in east Tennessee. Tennessee Valley Authority. Division of Forestry Development: Office of Power, Division of Health and Safety. 13 pp.
- 284. Engle, L. G. and R. D. Williams. 1957. Scarifying seedbed boosts yellow-poplar germination. U. S. Dept. Agric., Forest Service. Central States For. Expt. Station, Station Note No. 110. 2 pp.
- 285. Evans, R. M. 1971. Estimates of genetic and environmental variances and heritabilities for natural populations of Virginia pine (Pinus virginiana Mill.). M.S. Thesis, Univ. of Tennessee, Knoxville. 96 pp.
- 286. Evans, T. C. 1942. The distribution of commercial forest trees in Virginia. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Forest Survey Release No. 10. 32 pp.
- 287. Eyre, F. H. 1960. Survey of proposed natural forest areas in the Southeast. Society of American Foresters. 40 pp.
- 288. Farrar, D. R. 1967. Gametophytes of four tropical fern genera reproducing independently of their sporophytes in the southern Appalachians. Science 155:1266-1267.
- 289. Fedde, G. F. 1973. Cone production in Fraser firs infested by the balsam woolly aphid, Adelges piceae (Homoptera: Phylloxeridae). Jour. Georgia Entomological Soc. 8:127-130.
- 290. Fernald, M. L. 1931. Specific segregations and identities in some floras of eastern North America and the Old World. Rhodora 33:25-63.
- 291. Fernald, M. L. 1970. Gray's Manual of Botany. Eighth edition.
 American Book Co.: New York. 1632 pp.

- 292. Fink, P. 1931. A forest enigma. American For. 37:538 and 556.
- 293. Flora, D. E. 1977. The American chestnut as an allelopath.
 M.S. Thesis, Univ. of Tennessee, Knoxville. 36 pp.
- 294. Foley, J. 1902. A working plan for southern hardwoods, and its results. Yearbook of the United States, Dept. of Agriculture (1901). U. S. Gov. Printing Office. Washington, D. C., pp. 471-476.
- 295. Foley, J. 1903. Conservative lumbering at Sewanee, Tennessee. U. S. Dept. Agric., Forest Service. Bureau of Forestry Bull. No. 39. 36 pp.
- 296. Fosberg, F. R. 1941. Observations on Virginia plants: Part 1. Virginia Jour. Sci. 2:106.
- 297. Fosberg, F. R. and P. M. Mazzeo. 1965. Further notes on Shenandoah National Park plants. Castanea 30:191-205.
- 298. Fosberg, F. R. and E. H. Walker. 1943. First supplement to a preliminary checklist of plants in the Shenandoah National Park. Castanea 8:109-115.
- 299. Fosberg, F. R. and E. H. Walker. 1948. Second supplement to a preliminary checklist of plants in the Shenandoah National Park. Castanea 13:83-92.
- 300. Fosberg, F. R. and E. H. Walker. 1955. Third supplement to a preliminary checklist of plants in the Shenandoah National Park, Virginia. Castanea 20:61-70.
- 301. Foster, H. D. and W. W. Ashe. 1908. Chestnut oak in the southern Appalachians. U. S. Dept. Agric., Forest Service Circular No. 135. 23 pp.
- 302. Fowells, H. A. 1965. Silvics of forest trees of the United States. U. S. Dept. Agric., Forest Service. Agriculture Handbook No. 271. 762 pp.
- 303. Fox, F. J. 1977. Alternation and coexistence of tree species. American Naturalist 111:69-89.
- 304. Fox, W. B. and R. K. Godfrey. 1949. Notes on distribution of North Carolina plants I. Rhodora 51:129-146.
- 305. Fox, W. B., R. K. Godfrey, and H. L. Blomquist. 1950. Notes on distribution of North Carolina plants II. Rhodora 52:253-271.
- 306. Freeman, O. M. 1955. Notes on the flora of Polk County, North Carolina. Castanea 20:37-57.

- 307. Freeman, O. M. 1956. New or noteworthy plants from Polk County, North Carolina, or vicinity. Castanea 21:41-43.
- 308. Freeman, O. M. 1958. Notes on some plant associations in Greenville and Pickens Counties, South Carolina. Castanea 23:46-48.
- 309. Freer, R. S. 1933. Notes on the occurrence of some unusual plants in the Virginia Blue Ridge. Bartonia 15:9-13.
- 310. Freer, R. S. 1936. The Carolina hemlock (<u>Tsuga carolinana</u>, Engelm.) in Virginia. Claytonia 3:6-8.
- 311. Freer, R. S. 1938. Exploring for plants in the Virginia Blue Ridge, I. Claytonia 4:29-37.
- 312. Freer, R. S. 1950. A preliminary checklist of plants of the central Virginia Blue Ridge. Castanea 15:1-37.
- 313. Freer, R. S. 1958. Flora of central Virginia Blue Ridge: Additions to checklist. Castanea 23:96-109.
- 314. Freer, R. S. 1968. Plants of the central Virginia Blue Ridge: Supplement II. Castanea 33:163-193.
- 315. Fribourg, H. A. 1972. Quantification of the aspect parameter in ecological site characterizations. Ecology 53:977-979.
- 316. Frothingham, E. H. 1915a. The eastern hemlock. U. S. Dept. Agric., Department Bull. No. 152. 43 pp.
- 317. Frothingham, E. H. 1915b. The northern hardwood forest: Its composition, growth, and management. U. S. Dept. Agric., Department Bull. No. 285 (Professional Paper). 79 pp.
- 318. Frothingham, E. H. 1922a. Forest problems of Georgia's hardwood region. American Forestry 28:673-677.
- 319. Frothingham, E. H. 1922b. Forest research in the southern Appalachians. Southern Lumberman (December 23, 1922) p 122-127.
- 320. Frothingham, E. H. 1923. The research program of the Appalachian forest experiment station. Jour. Elisha Mitchell Sci. Soc. 39:70-75.
- 321. Frothingham, E. H. 1924a. New forests for cut-over and burned spruce lands in the southern Appalachians. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Official Record. December 10, 1924.
- 322. Frothingham, E. H. 1924b. Some silvicultural aspects of the chestnut blight situation. Jour. Forestry 22:861-872.

- 323. Frothingham, E. H. 1926. National forests of the eastern district.

 <u>In V. E. Shelford (ed.)</u>. A Naturalist's Guide to the Americas.

 <u>Ecological Society of America</u>, pp. 387-394.
- 324. Frothingham, E. H. 1931. Timber growing and logging practice in the southern Appalachian region. U. S. Dept. Agric., Technical Bull. No. 250. U. S. Gov. Printing Office, Washington, D.C. 93 pp.
- 325. Frothingham, E. H. 1941. Forestry on the Biltmore Estate. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Technical Note No. 43. 22 pp.
- 326. Frothingham, E. H. 1943. Some observations on cut-over forests in the southern Appalachians. Jour. Forestry 41:496-504.
- 327. Frothingham, E. H., J. S. Holmes, W. J. Damtoft, E. F. McCarthy, and C. F. Korstian. 1926. A forest type classification for the southern Appalachian Mountains and the adjacent plateau and coastal region. Jour. Forestry 24:673-684.
- 328. Fuller, M. 1979. Field botany in Kentucky: A reference list. Trans. Kentucky Acad. Sci. 40:43-51.
- 329. Fuller, R. D. 1977. Why does spruce not invade the high elevation beech forests of the Great Smoky Mountains? M.S. Thesis, Univ. of Tennessee, Knoxville. 65 pp.
- 330. Fulling, E. H. 1936. Abies intermedia, the Blue Ridge fir, a new species. Castanea 1:91-94.
- 331. Galyon, W. L. 1928a. The Smoky Mountains and the plant naturalist. Jour. Tenn. Acad. Sci. 3(2):3-13.
- 332. Galyon, W. L. 1928b. Trees and shrubs of east Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 75 pp.
- 333. Gambold, A.R.K. 1819. Plants of the Cherokee Country: A list of plants found in the neighborhood of the Connasauga River (Cherokee Country) where Springplace is situated. Made by Mrs. Gambold at the request of the Rev. Elias Cornelius. American Jour. Science 1:245-251.
- 334. Gant, R. E. 1971. The allelopathic influences of <u>Sassafras</u> albidum in old-field succession in Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 81 pp.
- 335. Gant, R. E. 1978. The role of allelopathic interference in the maintenance of southern Appalachian heath balds. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 123 pp.
- 336. Gant, R. E. and E.E.C. Clebsch. 1975. The allelopathic influences of <u>Sassafras albidum</u> in old-field succession in Tennessee. Ecology <u>56</u>:604-615.

- 337. Garman, H. 1913. The woody plants of Kentucky. Kentucky Agric. Expt. Station Bull. No. 169:3-62.
- 338. Garren, K. H. 1943. Effects of fire on vegetation of the south-eastern United States. Botanical Review 9:617-654.
- 339. Gates, F. C. and G. E. Nichols. 1930. Relation between age and diameter in trees of the primeval northern hardwood forest. Jour. Forestry 28:395-398.
- 340. Gates, W. H. 1941. Observations on the possible origin of the balds of the southern Appalachians. Contributions from the Department of Zoology, Louisiana State Univ. 53:1-16.

 Louisiana State Univ. Press, Baton Rouge.
- 341. Gattinger, A. 1901. The flora of Tennessee and a philosophy of botany. Gospel Advocate Printing Company: Nashville, Tennessee. 296 pp.
- 342. Gersmehl, P. J. 1969. A geographic evaluation of the ecotonal hypothesis of bald location in the southern Appalachians.
 Assoc. American Geographers Proc. 1:51-54.
- 343. Gersmehl, P. J. 1970a. Factors involved in the persistence of southern Appalachian treeless balds: An experimental study. Assoc. American Geographers Proc. 3:56-61.
- 344. Gersmehl, P. J. 1970b. Factors leading to mountaintop grazing in the southern Appalachians. Southeastern Geographer 10:67-72.
- 345. Gersmehl, P. J. 1971. A geographic approach to a vegetation problem: The case of the southern Appalachian grassy balds. Ph.D. Dissertation, Univ. of Georgia, Athens. 463 pp.
- 346. Gersmehl, P. J. 1973. Pseudo-timberline: The southern Appalachian grassy balds. Arctic and Alpine Research 5:A137-A138.
- 347. Gettman, R. W. 1974. A floristic survey of Sumpter National Forest--Andrew Pickens Division. M.S. Thesis, Clemson Univ., Clemson, South Carolina.
- 348. Gibbon, E. L. 1972. The taxonomic and ecologic distinctness of Carya ovata (Mill.) K. Koch. var. ovata and Carya ovata var. australis (Ashe) Little. Ph.D. Dissertation, North Carolina State Univ., Raleigh.
- 349. Gibson, J. R. 1970. The flora of Alder Run Bog, Tucker County, West Virginia. Castanea 35:81-98.
- 350. Gibson, S. G., III, and J. E. Fairey, III. 1973. A survey of the moss flora of Shining Creek, Haywood County, North Carolina. Bull. South Carolina Acad. Sci. 35:137.

- 351. Gilbert, V. C., Jr. 1954. Vegetation of the grassy balds of the Great Smoky Mountains National Park. M.S. Thesis, Univ. of Tennessee, Knoxville. 73 pp.
- 352. Gleason, H. A. 1968. The new Britton and Brown illustrated flora of northeastern United States and adjacent Canada. Revised edition in 3 volumes. Hafner Press: New York.
- 353. Glenn, L. C. 1911. Denudation and erosion in the southern Appalachian region and the Monongahala basin. U. S. Geological Survey, Professional Paper No. 72. U. S. Gov. Printing Office, Washington, D. C., 137 pp. (also House Document No. 1267, 61st Congress, 3rd Session.)
- 354. Glenn-Lewin, D. C. 1977. Species diversity in North American temperate forests. Vegetatio 33:153-162.
- 355. Glime, J. M. 1968. Ecological observations on some bryophytes in Appalachian mountain streams. Castanea 33:300-325.
- 356. Godfrey, R. K. 1958. Additions to the summer checklist of the vascular plants of the Highlands Region. Castanea 23:49-51.
- 357. Golden, M. S. 1974. Forest vegetation and site relationships in the central portion of the Great Smoky Mountains National Park. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 275 pp.
- 358. Goldstein, R. A. and D. F. Grigal. 1972. Definition of vegetation structure by canonical analysis. Jour. of Ecology 60:277-284.
- 359. Graham, A. 1964. Origin and evolution of the biota of southeastern North America: Evidence from the fossil plant record. Evolution 18:571-585.
- 360. Graham, S. A. 1941. The question of hemlock establishment. Jour. Forestry 39:567-569.
- 361. Gravatt, G. F. 1925. The chestnut blight in North Carolina. In Chestnut and the chestnut blight in North Carolina. North Carolina Geological and Economic Survey Paper No. 56, pp. 13-17.
- 362. Gravatt, G. F. and L. S. Gill. 1930. Chestnut blight. U. S. Dept. Agric., Farmers' Bull. No. 1641. 18 pp.
- 363. Gravatt, G. F. and R. P. Marshall. 1926. Chestnut blight in the southern Appalachians. U. S. Dept. Agric., Dept. Circular No. 370. 11 pp.
- 364. Gray, A. 1842. Notes on a botanical excursion to the mountains of North Carolina. American Jour. Science and $\Delta t = \frac{42}{1-49}$.

- 365. Great Smoky Mountain Publishing Company, Inc. 1928. The Great Smoky Mountains National Park, Tennessee and North Carolina. Great Smoky Mountains Publishing Company, Incorporated: Knoxville, Tennessee. 80 pp.
- 366. Greeley, W. B. and W. W. Ashe. 1907. White oak in the southern Appalachians. U. S. Dept. Agric., Forest Service Circular No. 105. 27 pp.
- 367. Greenlee, K. W. 1974. Vegetative analysis of a pristine and selectively cut cove forest of the Unicoi Mountains, western North Carolina. M.S. Thesis, Western Carolina Univ., Cullowhee, North Carolina.
- 368. Griffin, N.C.W. 1965. Germination and early survival of <u>Picea</u>
 rubens Sargent in experimental laboratory and field plantings.
 M.S. Thesis, Univ. of Tennessee, Knoxville. 44 pp.
- 369. Grigal, D. F. and R. A. Goldstein. 1971. An integrated ordination-classification analysis of an intensively sampled oak-hickory forest. Jour. of Ecology 59:481-492.
- 370. Griggs, R. F. 1914. Observations on the behavior of some species at the edges of their ranges. Bull. Torrey Botanical Club 41:25-49.
- 371. Grossman, J. and D. Pittillo. 1962. Shrubby and herbaceous flora of the Berea College Forest. Trans. Kentucky Acad. Sci. 23:61-73.
- 372. Guffy, S. Z. 1977. A review and analysis of the effects of pre-Columbian man on the eastern North American forests. Tennessee Anthropologist 2:121-137.
- 373. Haasis, F. W. 1923. Significance of a 255-year-age class in an eastern Kentucky forest. Jour. Forestry 21:700-704.
- 374. Haasis, F. W. 1926. The decreasing importance of forest grazing in the southern Appalachian region. Jour. Forestry 24:533-534.
- 375. Haasis, F. W. 1930. Forest plantations at Biltmore, North Carolina. U. S. Dept. Agric., Miscellaneous Publication No. 61. 30 pp.
- 376. Hack, J. T. and J. C. Goodlett. 1960. Geomorphology and forest ecology of a mountain region in the central Appalachians. U. S. Geological Survey Professional Paper No. 347. 66 pp.
- 377. Hale, P. M. 1883. The woods and timbers of North Carolina. P. M. Hale Publisher, Raleigh, North Carolina. 272 pp.

- 378. Hall, R. C. 1910. Preliminary study of forest conditions in Tennessee. Tennessee Geological Survey Series Bull. 10A:1-56.
- 379. Hall, R. C. 1913. Forest conditions in Kentucky and Tennessee. American For. 19:533-543.
- 380. Harbison, T. G. 1931. A preliminary checklist of the ligneous flora of the Highlands Region, North Carolina. Highlands Biological Laboratory, Publication No. 3. 15 pp.
- 381. Hardaway, T. F. 1962. Forest patterns of Chestnut and Pine Ridge, Oak Ridge, Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 58 pp.
- 382. Hardin, J. W. 1971a. Studies of the southeastern United States flora. I. Betulaceae. Jour. Elisha Mitchell Sci. Soc. 87:39-41.
- 383. Hardin, J. W. 1971b. Studies of the southeastern United States flora. II. The Gymosperms. Jour. Elisha Mitchell Sci. Soc. 87:43-50.
- 384. Hardin, J. W. and A. W. Cooper. 1967. Mountain disjuncts in the eastern Piedmont of North Carolina. Jour. Elisha Mitchell Sci. Soc. 83:139-150.
- 385. Hardin, J. W. and C. B. McDonald. 1975. Guide to the literature on plants of North Carolina. North Carolina Agric. Extension Service, Miscellaneous Extension Publication No. 66.
- 386. Hardin, J. W. and G. G. Shaw. 1975. A preliminary study of the flora and fauna in the Pullman Creek Watershed and Green River Gorge. North Carolina Agric. Expt. Station, North Carolina State Univ., Raleigh.
- 387. Harlow, R. F. and R. L. Downing. 1970. Deer browsing and hardwood regeneration in the southern Appalachians. Jour. Forestry 68:298-300.
- 388. Harper, R. M. 1901. On a collection of plants made in Georgia in the summer of 1900. Bull. Torrey Botanical Club 28:454-484.
- 389. Harper, R. M. 1910. Summer notes on the mountain vegetation of Haywood County, North Carolina. Torreya 10:53-64.
- 390. Harper, R. M. 1937. A depressed outlier of the Cumberland Plateau in Alabama and its vegetation. Castanea 2:13-18.
- 391. Harper, R. M. 1943. Hemlock in the Tennessee Valley of Alabama. Castanea 8:115-123.

- 392. Harper, R. M. 1947. Preliminary list of southern Appalachian endemics. Castanea 12:100-112.
- 393. Harper, R. M. 1948. More about southern Appalachian endemics. Castanea 13: 124-127.
- 394. Harper, R. M. 1952. Hemlock in Alabama: A supplementary note. Ecology 33:128-129.
- 395. Harris, W. F. 1977. Walker Branch Watershed: Site description and research scope. <u>In</u> D. L. Correll (ed.). Watershed Research in Eastern North America: A Workshop to Compare Results, Volume 1. Chesapeake Bay Center for Environmental Studies; Smithsonian Institution, Edgewater, Maryland, pp. 4-16.
- 396. Harshberger, J. W. 1930a. An ecologic study of the flora of mountainous North Carolina. Botanical Gazette 36:241-258, 368-383.
- 397. Harshberger, J. W. 1903b. The forest at the Natural Bridge, Virginia. Forest Leaves 9:42-44.
- 398. Harshberger, J. W. 1911. Phytogeographic survey of North America. G. E. Stechert and Company: New York. 790 pp.
- 399. Harvill, A. M. 1965. The mountain element in the flora of the Peninsula of Virginia. Rhodora 67:393-398.
- 400. Harvill, A. M. 1972. The historical significance of some disjunct distributional patterns in Virginia. Castanea 37:137-140.
- 401. Harvill, A. M. 1973. Phytogeography of the Virginias and the equilibrium concept of landscape. Castanea 38:266-268.
- 402. Harvill, A. M., Jr. 1975. Disjunct populations and the antiquity of species. Castanea $\underline{40}$:1-3.
- 403. Haug, P. T. and G. M. Van Dyne. 1968. Secondary succession in abandoned cultivated fields: An annotated bibliography. Oak Ridge National Lab., Environmental Sciences Division, ORNL-TM-2104. 70 pp.
- 404. Hay, R. L., C. C. Eagar, and K. D. Johnson. 1976. Status of the balsam woolly aphid in the Great Smoky Mountains National Park. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP. Management Report 20. 18 pp.
- 405. Hay, R. L. and W. G. Martin. 1978. Stand structure and species composition changes in a beech-maple stand in East Tennessee.

 In P. E. Pope (ed.). Central Hardwoods Forest Conference II,
 Proceedings. Purdue Univ., West Lafayette, Indiana, pp. 270-283.

- 406. Hazard, J. O. 1931. The work of the Tennessee Forest Service. Jour. Tenn. Acad. Sci. 6:130-139.
- 407. Hedge, C. L. 1979. Vegetation and floristic analysis of the proposed Exxon nuclear fuel reprocessing plant site, Roane County, Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 186 pp.
- 408. Hedlund, A. and J. M. Earles. 1971. Forest statistics for east Tennessee counties. U. S. Dept. Agric., Forest Service. Southern For. Expt. Station. Resource Bull. No. S0-26. 24 pp.
- 409. Heller, A. A. 1891. Notes on the flora of North Carolina. Bull. Torrey Botanical Club 18:186-192.
- 410. Helvey, J. D. and J. D. Hewlett. 1962. The annual range of soil moisture under high rainfall in the southern Appalachians.

 Jour. Forestry 60:485-486.
- 411. Helvey, J. D., J. D. Hewlett, and J. E. Douglass. 1972. Predicting soil moisture in the southern Appalachians. Soil Sci. Soc. of America, Proc. 36:954-959.
- 412. Hemmingway, R. T. 1938. Report on Rock Creek Natural Area, Cumberland National Forest, Laurel County, Kentucky. Report filed at the U. S. Forest Service Office, Winchester, Kentucky. 9 pp.
- 413. Henry, A. J. 1902. Climate of the southern Appalachians. In Theodore Roosevelt's (Senate Document No. 84) Message from the President of the United States: Transmitting a report of the Secretary of Agriculture in relation to the forests, rivers, and mountains of the southern Appalachian region. Washington, D. C., pp.143-153.
- 414. Henry, V. G. and R. H. Conley. 1972. Fall foods of the European wild hogs in the southern Appalachians. Jour. Wildlife Management 36:854-860.
- 415. Herman, T. and M. G. See. 1973. Secondary succession following fire in "Tight Holler," Kentucky. Castanea 38:275-285.
- 416. Hess, D. W. 1953. Microclimate and relic stand of <u>Tsuga canadensis</u> in the lower Piedmont of North Carolina. M.A. Thesis, Duke Univ., Durham, North Carolina. 27 pp.
- 417. Hewlett, J. D. 1961. Soil moisture as a source of base flow from steep mountain watersheds. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station Paper No. 132. 11 pp.
- 418. Hewlett, J. D. 1962. Internal water balance of forest trees on the Coweeta Watershed. Ph.D. Dissertation, Duke Univ., Durham, North Carolina.

- 419. Hickerson, T. F. 1911. The crest of the Blue Ridge Highway. Jour. Elisha Mitchell Sci. Soc. 27:160-168.
- 420. Hicks, D. J. 1978. A niche analysis of aestival herb communities of a cove forest. M.S. Thesis, Cornell Univ., Ithaca, New York. 139 pp.
- 421. Hicks, D. J. 1979. Aspects of forest microclimate in the Great Smoky Mountains. Jour. Tenn. Acad. Sci. 54:84-88.
- 422. Hicks, M. L. 1964. The Hepatic flora of Watauga County, North Carolina. Thesis, Appalachian State Univ., Boone, North Carolina.
- 423. Higgins, P. D. 1970. A preliminary survey of the vascular flora of the Red River Gorge. M.S. Thesis, Univ. of Louisville, Louisville, Kentucky.
- 424. Hinkle, C. R. 1975. A preliminary study of the flora and vegetation of Cumberland Gap National Historical Park, Middlesboro, Kentucky. M.S. Thesis, Univ. of Tennessee, Knoxville. 236 pp.
- 425. Hinkle, C. R. 1978. The relationship of forest communities and selected species to edaphic and topographic factors on the Cumberland Plateau of Tennessee. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 262 pp.
- 426. Hoffman, C. H. and R. F. Anderson. 1945. Effect of southern pine beetle on timber losses and natural restocking. Jour. Forestry 43:436-439.
- 427. Hoffman, H. L. 1950. Records of <u>Picea</u> in Virginia. Castanea 15:55-58.
- 428. Hoffman, H. L. 1964. Checklist of vascular plants of the Great Smoky Mountains. Castanea 29:1-45.
- 429. Hoffman, H. L. 1966a. Supplement to checklist, vascular plants, Great Smoky Mountains. Castanea 31:307-310.
- 430. Hoffman, H. L. 1966b. Notes on vascular plant families in the Great Smoky Mountains. Castanea 31:301-307.
- 431. Holmes, J. S. 1910-1921. Forest fires in North Carolina during [1909 to 1920]. North Carolina Geological and Economic Survey.

 Paper Nos. 19, 22, 25, 33, 37, 40, 48, 51. Raleigh, North Carolina.
- 432. Holmes, J. S. 1911. Forest conditions in western North Carolina.

 North Carolina Geologic and Economic Survey Bull. 23:1-116.
- 433. Holmes, J. S. (ed.). 1925. Chestnut and the chestnut blight in North Carolina. North Carolina Geological and Economic Survey Paper No. 56. 23 pp.

- 434. Holmes, J. S. 1954. Common forest trees of North Carolina:
 How to know them. North Carolina Dept. of Conservation and
 Development. Raleigh, North Carolina.
- 435. Holt, J. P. 1974. Bird populations in the hemlock sere on the highlands plateaus, North Carolina, 1946 to 1972. Wilson Bull. 86:397-406.
- 436. Holtzclaw, F. W., Jr. 1977. Floristic survey of spring flowering herbs at Frozen Head State Park, Morgan County, Tennessee. Jour. Tenn. Acad. Sci. 52:5-9.
- 437. Hooper, R. M. 1969. Prescribed burning for laurel and rhododendron control in the southern Appalachians. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station, Research Note No. SE-116. 6 pp.
- 438. Hopkins, A. D. 1899. Report on investigations to determine the cause of unhealthy conditions of the spruce and pine from 1880-1893. West Virginia Agric. Expt. Station Bull. No. 56. pp. 194-461.
- 439. Hornbeck, J. W. 1970. The radiant energy budget of clear-cut and forested sites in West Virginia. Forest Science 16:139-145.
- 440. House, H. D. 1910a. Checklist of the woody plants of western North Carolina. Biltmore, North Carolina. 13 pp.
- 441. House, H. D. 1910b. The vegetation on Lookingglass Mountain. Torreya 10:29-34.
- 442. House, H. D. 1913. Woody plants of western North Carolina.

 Biltmore Forest School. Published by the author. 34 pp.
- 443. Howe, T. D. and S. P. Bratton. 1976. Winter rooting activity of the European wild boar in the Great Smoky Mountains National Park. Castanea 41:256-264.
- 444. Hu, H. H. 1935. A comparison of the ligneous flora of China and Eastern North America. Bull. of the Chinese Bot. Soc. 1:79-97.
- 445. Huff, M. H. 1977. The effect of the European wild boar (Susscrofa) on the woody vegetation of gray beech forest in the Great Smoky Mountains. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP.

 Management Report No. 18. 63 pp.
- 446. Huffaker, W. M. 1975. A preliminary survey of the vascular flora of upper Tygarts Creek, Carter County, Kentucky. M.S. Thesis, Morehead State Univ., Morehead, Kentucky.

- 447. Hursh, C. R. and L. I. Barrett. 1931. Forests of Georgia highlands. Georgia Forest Service Bull. No. 15. 32 pp.
- 448. Hursh, C. R. and F. W. Haasis. 1931. Effects of 1925 summer drought on southern Appalachian hardwoods. Ecology 12:380-386.
- 449. Hutchins, R. B. 1972. The influence of microclimate on the soils and vegetation of steep forested slopes in eastern Kentucky.

 M.S. Thesis, Univ. of Kentucky, Lexington. 100 pp.
- 450. Hutnik, R. J. 1952. Reproduction on windfalls in a northern hardwood stand. Jour. Forestry 50:693-694.
- 451. Hutton, E. E. 1962. Representatives of the circumpolar Arctic flora in West Virginia. Wild Flower 38:31-42.
- 452. Iglich, E. 1975. Age structure of red, black, and scarlet oaks, sourwood, sourgum, and tulip tree populations on watershed 18 at Coweeta. M.S. Thesis, Univ. of Georgia, Athens.
- 453. Ike, A. F. and J. I. Clutter. 1968. Variability of forest soils of the Georgia Blue Ridge Mountains. Soil Sci. Soc. of Amer. Proc. 32:284-288.
- 454. Ike, A. F. and C. D. Huppuch. 1968. Predicting tree height growth from soil and topographic site factors in the Georgia Blue Ridge Mountains. Georgia Forest Research Council, Georgia Forest Research Paper No. 54. 11 pp.
- 455. Illick, J. S. 1921. Replacement of the chestnut. Jour. Forestry 19:105-114.
- 456. Iltis, H. H. 1956. Studies in Virginia plants II.

 Rhododendron maximum in the Virginia Coastal Plain and its
 distribution in North America. Castanea 21:114-124.
- 457. Jackson, W. T. 1949. Soil moisture, temperature, rainfall, and vegetation studies in a small valley near Knoxville, Tennessee.

 M.S. Thesis, Univ. of Tennessee, Knoxville. 82 pp.
- 458. James, R. L. 1955. Some botanical notes from northeast Tennessee. Castanea $\underline{20:77-103}$.
- 459. James, R. L. 1956. Introduced plants in northeast Tennessee. Castanea 21:44-52.
- 460. James, R. L. 1958. Miscellaneous notes and observations. Castanea 23:131-133.
- 461. James, R. L. 1959. Carolina hemlock--wild and cultivated. Castanea 24:112-134.

- 462. Jeffers, D. S. and C. F. Korstian. 1925. On the trail of the vanishing spruce. Scientific Monthly 20:358-368.
- 463. Jemison, G. M. 1943. Effect of single fires on the diameter growth of shortleaf pine in the southern Appalachians. Jour. Forestry 41:574-576.
- 464. Jemison, G. M. 1944. The effect of basal wounding by forest fires on diameter growth of some southern Appalachian hardwoods. Duke Univ., School of Forestry Bull. No. 9. 63 pp.
- 465. Jemison, G. M. 1946. Rehabilitation of defective Appalachian hardwood stands. Jour. Forestry 44:944-948.
- 466. Jemison, G. M. and G. H. Hepting. 1949. Timber stand improvement in the southern Appalachian region. U. S. Dept. Agric., Forest Service, Miscellaneous Publication No. 693. 80 pp.
- 467. Jemison, G. M. and J. J. Keetch. 1942. Rate of spread of fire and its resistance to control in the fuel types of eastern mountain forests. U. S. Dept. Agric., Forest Service.

 Appalachian For. Expt. Station, Technical Note No. 52. 15 pp.
- 468. Jenkins, W. R. and M. A. Ayres. 1951. The mountain oat grass communities of the region of Mountain Lake, Virginia.

 Castanea 16:92-96.
- 469. Jennison, H. M. 1929. A preliminary checklist of the spring wild flowers and the ferns of Tennessee. Jour. Tenn. Acad. Sci. Supplement 4(2):1-32.
- 470. Jennison, H. M. 1935. Notes on some plants of Tennessee. Rhodora 34:309-323.
- 471. Jennison, H. M. 1939. Flora of the Great Smokies. Jour. Tenn. Acad. Sci. 14:266-298.
- 472. Johnson, K. D. 1977. Balsam woolly aphid infestation of fraser fir in the Great Smoky Mountains. M.S. Thesis, Univ. of Tennessee, Knoxville. 64 pp.
- 473. Johnson, L. N. 1888. A tramp in the North Carolina Mountains. Botanical Gazette 13:269-271 and 318-321.
- 474. Johnson, P. L. and W. T. Swank. 1973. Studies of cation budgets in the southern Appalachians on four experimental watersheds with contrasting vegetation. Ecology 54:70-80.
- 475. Johnson, W. C. and S. P. Bratton. 1978. Biological monitoring in UNESCO biosphere reserves with special reference to the Great Smoky Mountains National Park. Biological Conservation 13:105-115.

- 476. Johnson, W. C. and D. West. 1973. Death is a part of life in a memorial forest. American Forests 79(4):8,57-58.
- 477. Jones, C. 1922. Common forest trees of Virginia. U. S. Dept. Agric., Forest Service. Bull. No. 26. 64 pp.
- 478. Jones, S. B., Jr. 1974. The flora and phytogeography of the Pine Mountain region of Georgia. Castanea 39:113-149.
- 479. Karban, R. 1978. Changes in an oak-chestnut forest since the chestnut blight. Castanea 43:221-228.
- 480. Kearney, T. H., Jr. 1893. Notes on the flora of southeastern Kentucky, with a list of plants collected in Harlan and Bell Counties in 1893. Bull. Torrey Botanical Club 20:474-485.
- 481. Kearney, T. H., Jr. 1894. New or little-known plants of the Southern states. Bull. Torrey Botanical Club 21:260-266.
- 482. Kearney, T. H., Jr. 1897a. New or otherwise interesting plants of eastern Tennessee. Bull. Torrey Botanical Club <u>24</u>:560-575.
- 483. Kearney, T. H. 1897b. The pine-barren flora in the east Tennessee mountains. Plant World 1:33-35.
- 484. Kearney, T. H. 1900. The lower austral element in the flora of the southern Appalachian region. Science 12:830-842.
- 485. Keener, C. S. 1970. The natural history of the Mid-Appalachian shale barren flora. In P. C. Holt (ed.). The Distributional History of the Biota of the Southern Appalachians Part II: Flora. Research Division Monograph 2. Virginia Polytechnic Institute and State Univ., Blackburg, Virginia. 2:215-248.
- 486. Keetch, J. J. 1944. Sprout development on once-burned and repeatedly-burned areas in the southern Appalachians. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Technical Note No. 59. 3 pp.
- 487. Keever, N. C. 1942. Plant succession on exposed granite of Rocky Face Mountain in Alexander County, North Carolina. M.S. Thesis, Duke Univ., Durham, North Carolina.
- 488. Keever, N. C. 1953. Present composition of some stands of the former oak-chestnut forest in the southern Blue Ridge Mountains. Ecology 34:44-54.
- 489. Keever, N. C. 1971. A study of the Mixed Mesophytic, Western Mesophytic and Oak Chestnut Regions of the Eastern Deciduous Forest including a review of the vegetational sites recommended as potential natural landmarks. Report prepared for the U. S. Dept. Interior, National Park Service.

- 490. Keever, N. C., H. J. Oosting and L. E. Anderson. 1951. Plant succession on exposed granite of Rocky Face Mountain, Alexander County, North Carolina. Bull. Torrey Botanical Club 78:401-421.
- 491. Keith, A. 1902. Topography and geology of the southern Appalachians.

 In Theodore Roosevelt's (Senate Document No. 84) Message from the President of the United States: Transmitting a report of the Secretary of Agriculture in relation to the forests, rivers, and mountains of the southern Appalachian region.

 Washington, D. C., pp. 111-122.
- 492. Kellner, C. V. 1978. Are pollinators exerting selection pressure on the azalea hybrids on Gregory Bald? M.S. Thesis, Univ. of Tennessee, Knoxville. 104 pp.
- 493. Kellogg, R. S. 1907. Future of the Appalachian forests. Southern Lumberman 53(639):54-55.
- 494. Kellogg, R. S. 1910. Perpetuating the timber resources of the South. American Forestry 16:3-12.
- 495. Kelsey, C. T. 1976. Theory and analysis of vegetation pattern. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 165 pp.
- 496. Kelsey, C. T., F. G. Goff, and D. Fields. 1977. Theory and analysis of vegetation pattern. Oak Ridge National Laboratory, Environmental Sciences Division Publication No. 922. 167 pp.
- 497. Kendeigh, S. C. 1942. Research areas in the National Parks, January, 1942. Ecology 23:236-238.
- 498. "Kentucky's mountain forests." Date unknown. Arboriculture $\frac{7(5)}{99-100}$,109.
- 499. Kephart, H. 1936. The Cherokees of the Smoky Mountains. Atkinson Press: Ithaca, New York. 36 pp.
- 500. Kercher, J. R. and R. A. Goldstein. 1977. Analysis of an east Tennessee oak-hickory forest by canonical correlation of species and environmental parameters. Vegetatio 35:153-164.
- 501. Kessell, S. R. 1972. A model of eastern and Carolina hemlock

 (Tsuga canadensis and T. caroliniana) distribution, productivity and competition in the Linville Gorge, North
 Carolina. Honors Thesis, Amherst College, Amherst, Massachusetts.
- 502. Kessell, S. R. 1979. Adaptation and dimorphism in eastern hemlock, <u>Tsuga canadensis</u> (L.) Carr. American Naturalist <u>113</u>:333-350.
- 503. Killebrew, J. B. 1897. The forests of Tennessee. American Forestry Association, Proceedings 12:101-112.

- 504. Killebrew, J. B. and J. M. Safford. 1874 and 1974. Introduction to the resources of Tennessee. Tennessee Bureau of Agriculture. Tavel, Eastman & Howell, State Printers, Nashville, Tennessee. 1193 pp.
- 505. Kimberly, J. T. 1933. Growth rate of white pine in the southern Appalachians and New England. Jour. Forestry 31:946-947.
- 506. King, P. B. and A. Stupka. 1950. The Great Smoky Mountains--Their geology and natural history. Scientific Monthly 71:31-43.
- 507. Kitchings, T. and L. K. Mann. 1976. A description of the terrestrial ecology of the Oak Ridge Environmental Research Park. Oak Ridge National Lab., Environmental Sciences Division. ORNL-TM-5073. 58 pp.
- 508. Knight, H. A. and J. P. McClure. 1966. North Carolina's timber.
 U. S. Dept. Agric., Forest Service. Southeastern For. Expt.
 Station, Forest Service, Resource Bull. No. SE-5. 47 pp.
- 509. Knight, H. A. and J. P. McClure. 1975. North Carolina's timber resources, 1974. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station, Resource Bull. No. SE-33. 52 pp.
- 510. Komarek, E. V. 1974. Effects of fire on temperate forests and related ecosystems: Southeastern United States. <u>In</u> T. T. Kozlowski and C. E. Ahlgren (eds.). Fire and Ecosystems. Academic Press: New York, pp. 252-278.
- 511. Koroleff, A. 1923. Overhead skidding in the southern Appalachians. Southern Lumberman: October 27, pp. 39.
- 512. Korstian, C. F. 1924. The tragedy of chestnut. Southern Lumberman 117:180-183.
- 513. Korstian, C. F. 1927. Chestnut killed by blight replaced by other valuable trees. In The United States Department of Agriculture's Yearbook of Agriculture, 1927, pp. 179-181.
- 514. Korstian, C. F. 1930. The southern Appalachian spruce forest as affected by logging and fire. U. S. Dept. Agric. Technical Bull. No. 1930:9-11. Forest Service Papers, National Archives.
- 515. Korstian, C. F. 1937. Perpetuation of spruce on cut-over and burned lands in the higher southern Appalachian Mountains. Ecological Monographs 7:125-167.
- 516. Korstian, C. F. 1962. "The Appalachian Highland Region." In J. W. Barrett (ed.). Regional Silviculture of the United States. The Ronald Press Company: New York, pp. 178-245.

- 517. Korstian, C. F. and P. W. Strickell. 1927a. The natural replacement of blight-killed chestnut. U. S. Dept. Agric., Miscellaneous Circular No. 100. 15 pp.
- 518. Korstian, C. F. and P. W. Strickell. 1927b. The natural replacement of blight-killed chestnut in the hardwood forests of the northeast. Jour. Agricultural Research 34:631-648.
- 519. Kovner, J. L. 1955. Changes in streamflow and vegetation characteristics of a southern Appalachian mountain watershed brought about by forest cutting and subsequent natural regrowth. Ph.D. Dissertation, New York State Univ., College of Forestry, Buffalo.
- 520. Kovner, J. L. 1957. Evapotranspiration in forest stands of the southern Appalachian Mountains. Georgia Acad. Sci. Bull. 15:80-85.
- 521. Kring, J. B. 1965. Vegetational succession at Craggy Gardens,
 North Carolina. M.S. Thesis, Univ. of Tennessee, Knoxville.
 61 pp.
- 522. Krumpe, P. F. 1971. The delineation and prediction of forest cover and site parameters by multiband remote sensing on Wilson Mountain, Morgan County, Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 120 pp.
- 523. Krumpe, P. F., H. R. DeSelm, and C. C. Amundsen. 1971. An ecological analysis of forest landscape parameters by multiband remote sensing. <u>In Proceedings of the Seventh International Symposium on Remote Sensing of Environment.</u> Univ. of Michigan, Ann Arbor, pp. 715-730.
- 524. Küchler, A. W. 1964. Manual to accompany the maps: Potential natural vegetation of the conterminous United States.

 American Geogr. Soc. Special Publication No. 36. New York.
 38 pp.
- 525. Küchler, A. W. 1966. Potential natural vegetation of the United States, map in National Atlas of the United States of America (U. S. Dept. of Interior, 1970). U. S. Geological Survey, Washington, D. C. 414 pp.
- 526. Kuenzel, J. G. and J. R. McGuire. 1942. Response of chestnut oak reproduction to clear and partial cutting of overstory. Jour. Forestry 40:238-243.
- 527. Kumes, E. A. 1967. The distribution of <u>Kalmia latifolia L.</u> American Midland Naturalist <u>77</u>:525-526.
- 528. Kuykendall, N. W., III. 1978. Composition and structure of replacement forest stands following southern pine beetle infestations as related to selected site variables in the Great Smoky Mountains. M.S. Thesis, Univ. of Tennessee, Knoxville. 122 pp.

- 529. Lambert, R. S. 1961a. Logging the Great Smokies, 1880-1930. Tennessee Historical Quarterly 20:350-363.
- 530. Lambert, R. S. 1961b. Logging on the Little River, 1890-1940. East Tennessee Historical Society Publication 33:32-42.
- 531. Lawhorn, W. T. 1973. Radial growth and wood density of white pine in relation to coal-derived environmental pollutants. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 110
- 532. Laxton, J. 1931a. Pioneers in forestry at Biltmore. American Forests 37:269-272,319.
- 533. Laxton, J. 1961b. Pisgah; A forest treasureland. American Forests 37:339-342.
- 534. Lemon, P. C. 1961. Forest ecology of ice storms. Bull. Torrey Botanical Club 88:21-29.
- 535. Li, H. L. 1952. Floristic relationships between eastern Asia and eastern North America. Trans. Amer. Phil. Soc., N.S. 42:371-429.
- 536. Lieth, H. 1972. Computer mapping of forest data. <u>In Proceedings</u> of the Fifty-first Annual Meeting of the Society of American Foresters, Appalachian Section. Community Mailing Service, Wilmington, North Carolina, pp. 53-79.
- 537. Lieth, H. and E. Landolt (eds.). 1979. Contributions to the knowledge of flora and vegetation in the Carolinas. Proceedings of the 16th International Phytogeographers Excursion (IPE) 1978, through the southeastern United States. 297 pp.
- 538. Lieth, H. and J. S. Radford. 1971. Phenology, resource management, and synagraphic computer mapping. Bio Science 21:62-70.
- 539. Lindenmuth, A. W., Jr. 1953. How dry were southern Appalachian forests in the fall of 1952? U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station, Research Note No. 24. 2 pp.
- 540. Lindsay, M. 1976. History of the grassy balds in the Great Smoky Mountains National Park. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP.
 Management Report No. 4. 215 pp.
- 541. Lindsay, M. 1977. Management of grassy balds in Great Smoky Mountains National Park. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP.

 Management Report No. 17. 67 pp.
- 542. Lindsay, M. 1978. The vegetation of the grassy balds and other high elevation disturbed areas in the Great Smoky Mountains National Park. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP. Management Report No. 26. 150 pp.

- 543. Lindsay, M. and S. P. Bratton. 1979. Grassy balds of the Great Smoky Mountains: Their history and flora in relation to potential management. Environmental Management 3:417-430.
- 544. Linn, R. M. 1979. Proceedings of the first conference on scientific research in the National Parks. Volume 1 (New Orleans, Louisiana November 1976). U. S. Dept. Interior, National Park Service. Transactions and Proceedings Series No. 5. 681 pp.
- 545. Lipps, E. L. 1966. Plant communities of a portion of Floyd County, Georgia--especially the Marshall Forest. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 206 pp.
- 546. Lipps, E. L. and H. R. DeSelm. 1969. The vascular flora of the Marshall Forest, Rome, Georgia. Castanea 34:414-432.
- 547. Little, E. L., Jr. 1970. Endemic, disjunct and northern trees in the southern Appalachians. In P. C. Holt (ed.). The Distributional History of the Biota of the Southern Appalachians. Part II: Flora. Research Division Monograph 2. Virginia Polytechnic Institute and State Univ., Blacksburg, Virginia. 2:249-290.
- 548. Little, S. and H. A. Somes. 1956. Buds enable pitch and shortleaf pine to recover from injury. U. S. Dept. Agric., Forest Service. Northeastern For. Expt. Station Paper No. 81. 14 pp.
- 549. Livengood, J. M. 1972. Vascular flora of the Sim's Pond area. Thesis, Appalachian State Univ., Boone, North Carolina.
- 550. Loftis, D. L. 1978. Pre-harvest herbicide control of undesirable vegetation in southern Appalachian hardwoods. Southern Jour. Applied Forestry 2:51-54.
- 551. Lorimer, C. 1976. Stand history and dynamics of a southern Appalachian virgin forest. Ph.D. Dissertation, Duke Univ., Durham, North Carolina. 200 pp.
- 552. Losche, C. K. 1967. Soil genesis and forest growth on steeply sloping landscapes of the southern Appalachians. Ph.D. Dissertation, North Carolina State Univ., Raleigh. 194 pp.
- 553. Lotti, T. and T. C. Evans. 1942. Virginia's forests. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Forest Survey Release No. 11. 62 pp.
- 554. Lotti, T. and T. C. Evans. 1943. The forest situation in the mountain region of Virginia. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Forest Survey Release No. 15. 70 pp.

- 555. Lupes, T. E. 1973. Response of understory vegetation to three levels of canopy reduction and recreation use on a developed campground in the southern Appalachians. M.S. Thesis, North Carolina State Univ., Raleigh. 53 pp.
- 556. Lyle, C. G. 1956. Vegetation of the Nolichucky River Gorge.
 M.S. Thesis, Univ. of Tennessee, Knoxville. 66
- 557. MacDonald, M.E.B. 1967. Grassy balds of the Great Smoky Mountains. The Univ. of Tennessee Arboretum Soc. Bull., Summer 1967. 6 pp.
- 558. MacDonald, R. D. 1964. Establishment of continuous forest inventory on University of Tennessee land in Morgan and Scott Counties. M.S. Thesis, Univ. of Tennessee, Knoxville. 117 pp.
- 559. MacDonald, R. D. and A. R. Coggins. 1967. Notes on azaleas growing on Gregory Bald. Univ. of Tennessee Arboretum Soc. Bull. Summer 1967, pp. 9-13.
- 560. MacDonald, R. D. and E. Thor. 1967. American chestnut in the southern Appalachians. Jour. Forestry 65:121-122.
- 561. MacDonald, R. D., E. Thor, and J. O. Andes. 1962. American chestnut breeding program of the University of Tennessee.

 Northern Nut Growers Association, Inc., 53rd Annual Report, pp.19-21.
- 562. McCarroll, D. R. 1978. Pathogenesis of Endothia parasitica (Murr.)
 A. and A. Ph.D. Dissertation, Univ. of Tennessee, Knoxville.
 143 pp.
- 563. McCarthy, D. M. 1976. Numerical techniques for classifying forest communities in the Tennessee Valley. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 164 pp.
- 564. McCarthy, E. F. 1923. Forest fire weather in the southern Appalachians. Monthly Weather Review 51:182-185.
- 565. McCarthy, E. F. 1927. Weather and forest inflammability in the southern Appalachians. U. S. Monthly Weather Review 55:119-122.
- 566. McCarthy, E. F. 1928. Analysis of fire damage in the southern Appalachian forests. Jour. Forestry 26:57-68.
- 567. McCarthy, E. F. and I. H. Simms. 1935. The relation between tree size and mortality caused by fire on southern Appalachian hardwoods. Jour. Forestry 33:155-157.
- 568. McCormick, J. F. 1954. Forest statistics for north-central and north Georgia. U. S. Dept. Agric., Forest Service. South-eastern For. Expt. Station, Forest Survey Release No. 42. 31 pp.

- 569. McCormack, J. F. 1956. Forest statistics for the mountain region of North Carolina, 1955. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station, Forest Survey Release No. 46. 46 pp.
- 570. McCracken, R. J., R. E. Shanks, and E.E.C. Clebsch. 1962. Soil morphology and genesis at higher elevations of the Great Smoky Mountains. Soil Sci. Soc. of Amer. Proc. 26:384-388.
- 571. McCracken, W. H., III. 1978. Comparison of forest cover prior to and following disturbance in two areas of the Great Smoky Mountains National Park. M.S. Thesis, Univ. of Tennessee, Knoxville. 87 pp.
- 572. McFarland, F. T. 1942. A catalogue of the vascular plants of Kentucky. Castanea 7:77-108.
- 573. McGee, C. E. and L. Della-Bianca. 1967. Diameter distributions in natural yellow-poplar stands. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station, Research Paper No. SE-25. 7 pp.
- 574. McGinnis, J. T. 1958. Forest litter and humus types of East Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 82pp.
- 575. McGinty, D. T. 1972. The ecological roles of <u>Kalmia latifolia</u> and <u>Rhododendron maximum</u> in the hardwood forest at Coweeta, North Carolina. M.S. Thesis, Univ. of Georgia, Athens.
- 576. McInteer, B. B. 1940. Some noteworthy plants of Kentucky I. Castanea 5:103-106.
- 577. McInteer, B. B. 1941. Distribution of the woody plants of Kentucky in relation to geologic regions. Kentucky Dept. Mines and Minerals. Series 8, Bull. No. 6. 19 pp.
- 578. McInteer, B. B. 1944. Some noteworthy plants of Kentucky II.
 Distribution of some southern species of trees and shrubs.
 Castanea 9:101-105.
- 579. McInteer, B. B. 1947. Soil preferences of some plants as seen in Kentucky. Castanea 12:1-8.
- 580. McMaster, W. M. and E. F. Hubbard. 1970. Water resources of the Great Smoky Mountains National Park, Tennessee and North Carolina. U. S. Geological Survey: Hydrologic Investigation Atlas, HA-420, 2 sheets.
- 581. McVaugh, R. 1943. The vegetation of the granitic flat-rocks of the southeastern United States. Ecological Monographs 13:119-166.

- 582. Mackey, H. E. and N. Sivec. 1973. The present composition of a former oak-chestnut forest in the Allegheny mountains of western Pennsylvania. Ecology 54:915-918.
- 583. Maddox, R. S. 1926. The trees of the Great Smokies. Jour. Tenn. Acad. Sci. 1(2):21-24.
- 584. Maddox, R. S. 1938. Common forest trees of Tennessee: How to know them. Tennessee Department of Conservation, Forestry Division. In cooperation with the United States Department of Agriculture, Forest Service. 80 pp.
- 585. Madgwick, H.A.I. 1971. The accuracy and precision of estimates of the dry matter in stems, branches, and foliage in an old field Pinus virginiana stand. In Forest Biomass Studies, Section 25, XVth Congress, International Union of Forest Research Organizations, Gainesville, Florida. Life Sciences and Agric. Expt. Sta. Miscellaneous Publication No. 132. Univ. of Maine, pp. 105-112.
- 586. Madgwick, H.A.I. and P. A. Desrochers. 1972. Association analysis and classification of the forest vegetation of the Jefferson National Forest. Jour. of Ecology 60:285-292.
- 587. Malter, J. L. 1977. The flora of Citico Creek Wilderness Study Area, Cherokee National Forest, Monroe County, Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 117 pp.
- 588. Mann, L. K. 1977. Discriminant analysis of some East Tennessee forest herb niches. M.S. Thesis, Univ. of Tennessee, Knoxville. 107 pp.
- 589. Mann, L. K. and M. W. Bierner. 1975. Oak Ridge, Tennessee, Flora:
 Habitats of the vascular plants Revised inventory. Oak
 Ridge National Laboratory TM-5056. 141 pp.
- 590. Mann, L. K., H. H. Shugart, and J. T. Kitchings. 1978. Discriminant analysis of some east Tennessee forest herb niches. Oak Ridge National Lab. TM-6205. 104 pp.
- 591. Mark, A. F. 1958a. An ecological study of the grass balds of the southern Appalachian Mountains. Ph.D. Dissertation, Duke Univ., Durham, North Carolina. 284 pp.
- 592. Mark, A. F. 1958b. The ecology of the southern Appalachian grass balds. Ecological Monographs 28:293-336.
- 593. Mark, A. F. 1959. The flora of the grass balds and the fields of the southern Appalachian mountains. Castanea 24:1-21.
- 594. Marshall, R. 1927. The growth of hemlock before and after suppression. Harvard Univ. Forestry Bull. 11:1-43.

- 595. Martin, M. D. 1971. Growth analysis of University of Tennessee forests in Morgan and Scott Counties. M.S. Thesis, Univ. of Tennessee, Knoxville. 88 pp.
- 596. Martin, W. H., III. 1966. Some relationships of vegetation to soil and site factors on Wilson Mountain, Morgan County, Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 134 pp.
- 597. Martin, W. H., III. 1971. Forest communities of the Great Valley of East Tennessee and their relationship to soil and topographic properties. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 366 pp.
- 598. Martin, W. H., III. 1975. The Lilley Cornett Woods: A stable mixed mesophytic forest in Kentucky. Botanical Gazette 136:171-183.
- 599. Martin, W. H., III. 1978. White oak communities in the Great Valley of East Tennessee: A vegetation complex. In P. E. Pope (ed.). Central Hardwoods Forest Conference II, Proceedings. Purdue Univ., West Lafayette, Indiana, pp. 39-61.
- 600. Martin, W. H., III, and H. R. DeSelm. 1976. Forest communities of dissected uplands in the Great Valley of East Tennessee. <u>In</u>
 J. S. Fralish, G. T. Weaver, and R. C. Schesenger (eds.).
 Central Hardwoods Forest Conference I, Proceedings. Southern Illinois Univ., Carbondale, Illinois. pp. 11-30.
- 601. Martin, W. H., III, and C. Shepherd. 1973. Trees and shrubs of Lilley Cornett Woods, Letcher County, Kentucky. Castanea 38:327-335.
- 602. Martoon, W. R. 1923. Common forest trees of Kentucky; how to know them. Frankfort, Kentucky. 72 pp.
- 603. Mason, R. L. and M. H. Avery. 1931. A bibliography for the Great Smokies. Appalachia 18:271-277.
- 604. Massey, A. B. 1961. Virginia flora. Virginia Agric. Expt. Sta. Tech. Bull. No. 155, Blacksburg, Virginia. 258 pp.
- 605. Masters, F. N. and C. E. Allred. 1944. The Cumberland Plateau in Tennessee. Tennessee Agric. Expt. Sta. Bull. No. 192. 31 pp.
- 606. Matney, T. G. 1974. Oak regeneration in natural upland oak stands of West Virginia. M.S. Thesis, West Virginia Univ., Morgantown.
- 607. Matthews, J. F., R. L. Kologiski, T. L. Mellichamp, et al. 1974. Additional records to the vascular flora of the Carolinas. Castanea 39:349-360.

- 608. Maughan, W. (ed.). 1939. A guide to forestry activities in North Carolina, South Carolina, and Tennessee. Society of American Foresters, Appalachian Section. Miller Printing Co., Asheville, North Carolina. 287 pp.
- 609. Mazzeo, P. M. 1968. Trees of Shenandoah National Park. Shenandoah Natural History Association, Luray, Virginia.
- 610. Meijer, W. 1970. The flora and vegetation of Kentucky as a field for research and teaching. Castanea 35:161-176.
- 611. Meijer, W. 1972. Tree flora of Kentucky. Univ. Press of Kentucky, Lexington. 144 pp.
- 612. Memminger, E. R. 1915. A list of plants growing spontaneously in Henderson County, North Carolina. Jour. Elisha Mitchell Sci. Soc. 30:126-149.
- 613. Mercer, E. P. 1969. Variation in the morphology and ecology of Fagus grandifolia in North Carolina. M.S. Thesis, North Carolina State Univ., Raleigh.
- 614. Metcalf, Z. P. and B. W. Wells. 1926. North Carolina. <u>In V. E. Shelford (ed.)</u>. Naturalist's Guide to the Americas. <u>Ecological Society of America</u>, pp. 412-418.
- 615. Metress, J. F. 1977. The place of the American Indian in the origin of the southern Appalachian grass balds. In R. C. Romans (ed.). Geobotany. Plenum Press, New York. pp. 233-246.
- 616. Meyer, S. L. 1942. Autumn coloration in the Great Smokies. Jour. Tenn. Acad. Sci. 17:269-272.
- 617. Michael, J. L. 1969. The vascular flora of Bullhead Mountain, Allegheny County, North Carolina. M.S. Thesis, Univ. of North Carolina, Chapel Hill.
- 618. Michaux, F. A. 1805. Travels to the westward of the Allegheny Mountains in the States of Ohio, Kentucky, and Tennessee, in the year 1802. (Volume I.) Richard Phillips Publishing Co., London. 96 pp.
- 619. Miller, F. H. 1942. Vegetation type map of Great Smoky Mountains National Park.
- 620. Miller, H. A. 1972. Life and death in a memorial forest. American Forests $\frac{78(12)}{32-33}$:
- 621. Millspaugh, C. F. 1892. Preliminary catalog of the flora of West Virginia. West Virginia Agric. Expt. Station Bull. No. 24, pp. 311-537.

- 622. Millspaugh, C. F. 1913. Living flora of West Virginia. West Virginia Geological Survey Report No. 5(a). 491 pp.
- 623. Minckler, L. S. 1940a. Early planting experiments in the sprucefir type of the southern Appalachians. Jour. Forestry 38:651-654.
- 624. Minckler, L. S. 1940b. Vegetative competition as related to plantation success in the southern Appalachian spruce type. Jour. Forestry 38:68-69.
- 625. Minckler, L. S. 1941a. Forest plantation success and site-soil characteristics on old fields in the Great Appalachian Valley. Soil Sci. Soc. of Amer. Proc. 6:396-398.
- 626. Minckler, L. S. 1941b. A preliminary guide for the reforestation of old fields in the Great Appalachian Valley and adjacent mountain regions. U. S. Dept. Agric., Forest Service.

 Appalachian For. Expt. Station Technical Note No. 45. 6 pp.
- 627. Minckler, L. S. 1941c. Preliminary results of experiments in reforestation of cut-over and burned spruce lands in the southern Appalachians. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Technical Note No. 47. 5 pp.
- 628. Minckler, L. S. 1943. Effect of rainfall and site factors on the growth and survival of young forest plantations. Jour. Forestry 41:829-833.
- 629. Minckler, L. S. 1944. Third-year results of experiments in reforestation of cut-over and burned spruce lands in the southern Appalachians. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Technical Note No. 60. 10 pp.
- 630. Minckler, L. S. 1945. Reforestation in the spruce type in the southern Appalachians. Jour. Forestry 43:349-356.
- 631. Minckler, L. S. 1946. Old field reforestation in the Great Appalachian Valley as related to some ecological factors. Ecological Monographs 16:87-108.
- 632. Minckler, L. S. and C. E. Jensen. 1959. Reproduction of upland central hardwoods as affected by cutting, topography, and litter depth. Jour. Forestry 57:424-428.
- 633. Minckler, L. S. and J. D. Woerhide. 1965. Reproduction of hardwoods 10 years after cutting as affected by site and opening size. Jour. Forestry 63:103-107.
- 634. Moneymaker, B. C. 1939. Erosional effects of the Webb Mountain (Tennessee) cloudburst of August 5, 1938. Jour. Tenn. Acad. Sci. 14:190-196.

- 635. Monk, C. D. 1967. Tree species diversity in the eastern deciduous forest with particular reference to north central Florida. American Naturalist 101:173-187.
- 636. Monk, C. D., G. I. Child, and S. A. Nicholson. 1970. Biomass, litter, and leaf surface area estimates of an oak-hickory forest. Oikos 21:138-141.
- 637. Moore, B. J. 1963. A preliminary annotated checklist of the foliose and fruticose lichens of the Great Smoky Mountains National Park. M.S. Thesis, Univ. of Tennessee, Knoxville.
- 638. Moore, T. A. 1972. The phytogeography of Boone Fork sphagnum bog. M.S. Thesis, Appalachian State Univ., Boone, North Carolina.
- 639. Mowbray, T. B. 1964. Vegetational gradients in the Bear-wallow Gorge of the Blue Ridge escarpment. M.S. Thesis, Duke Univ., Durham, North Carolina.
- 640. Mowbray, T. B. 1966. Vegetation gradients in the Bear-wallow Gorge of the Blue Ridge escarpment. Jour. Elisha Mitchell Sci. Soc. 82:138-149.
- 641. Mowbray, T. B. 1967. Vegetational gradients in relation to environment and phenology in a southern Blue Ridge gorge. Ph.D. Dissertation, Duke Univ., Durham, North Carolina.
- 642. Mowbray, T. B. and H. J. Oosting. 1968. Vegetation gradients in relation to environment and phenology in a southern Blue Ridge gorge. Ecological Monographs 38:309-344.
- 643. Munn, R. F. 1961. The southern Appalachians: A bibliography and guide to studies. West Virginia Univ. Library, Morgantown. 106 pp.
- 644. Murphy, P. A. 1972. Forest resources of Tennessee. U. S. Dept.
 Agric., Forest Service. Southern For. Expt. Station, Resource
 Bull. No. S0-35. 33 pp.
- 645. Muse, H. S., Jr. 1978. Opportunities for managing white pines in the southern Appalachians. Forest Farmer 37:6-17.
- 646. Myers, O., Jr., and F. H. Bormann. 1963. Phenotypic variation in Abies balsamea in response to altitudinal and geographic gradients. Ecology 44:429-436.
- 647. Nelson, R. M. 1932. Growth and mortality of chestnut sprouts.

 Jour. Forestry 30:872-873.
- 648. Nelson, R. M., I. H. Sims, and M. S. Abell. 1933. Basal wounds on some southern Appalachian hardwoods. Jour. Forestry 31:829-837.

- 649. Nelson, T. C. 1955. Chestnut replacement in the southern highlands. Ecology 36:352-353.
- 650. Nelson, T. C. and W. M. Zillgitt. 1969. A forest atlas of the South. U. S. Dept. Agric., Forest Service. Southern and Southeastern For. Expt. Stations, New Orleans and Asheville. 27 pp.
- 651. Nemeth, J. C. 1973. A mountain disjunct hemlock stand in the Piedmont of Virginia. Castanea 38:171-175.
- 652. Nichols, G. E. 1935. The hemlock-white pine-northern hardwood region of eastern North America. Ecology 16:403-422.
- 653. Nichols, G. M. 1971. Effects of annual and periodic fires in a hardwood forest on the eastern Highland Rim. M.S. Thesis, Univ. of Tennessee, Knoxville. 121 pp.
- 654. Nichols, R. 1977. The ecological effects of LeConte Lodge in the Great Smoky Mountains National Park. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP. 45 pp.
- 655. Norris, D. H. 1964. Bryoecology of the Appalachian spruce-fir zone. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 175 pp.
- 656. Norris, D. H. 1967. Bryophytes of Cumberland Falls State Park, Kentucky. Castanea 32:159-171.
- 657. Odum, E. P. 1950. Bird populations of the Highlands (North Carolina) Plateau in relation to plant succession and avian invasion. Ecology 31:587-605.
- 658. Ogden, W. H. 1957. Some statistical aspects of county forest inventorying in the Tennessee Valley. Jour. Forestry 55:664-665.
- 659. Oh, K. C. 1964. The sampling, pattern, and survival of the higher elevation beech in Great Smoky Mountains. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 121 pp.
- 660. Olson, D. F., Jr. 1959. Site index curves for upland oak in the southeast. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station Research Note No. 125. 2 pp.
- 661. Olson, J. S. 1961. Ecological sampling and meteorological calculation of fallout on a forest near Oak Ridge. Oak Ridge National Laboratory. Health and Safety Division, ORNI-3181. 57 pp.
- 662. Olson, J. S. 1971. Primary productivity: Temperate forests, especially American deciduous types. <u>In UNESCO</u>. Productivity of forest ecosystems, Proc. Brussels Symp., 1969. (Ecology and Conservation, 4.), pp. 235-258.

- 663. Olson, J. S. and S. Cristofolini. 1965. Succession of Oak Ridge vegetation. In Progress in Terrestrial and Freshwater Ecology. ORNL 3849. Oak Ridge National Laboratory, Oak Ridge, Tennessee. 55 pp.
- 664. Olson, J. S., G. Cristofolini, and S. Cristofolini. 1966. Oak Ridge, Tennessee, Flora: 1. Preliminary alphabetic inventory of vascular plants. ORNL-TM-1232. Oak Ridge National Laboratory, Oak Ridge, Tennessee. 31 pp.
- 665. Omiyale, O. 1976. Spacing effects on planted pines of four species. M.S. Thesis, Univ. of Tennessee, Knoxville. 60 pp.
- 666. Oosting, H. J. 1941. Plants occurring on calcareous rock outcrops in North Carolina. Torreya 41:76-81.
- 667. Oosting, H. J. and L. E. Anderson. 1937. The vegetation of a barefaced cliff in western North Carolina. Ecology 18:280-292.
- 668. Oosting, H. J. and W. D. Billings. 1939. Edapho-vegetational relations in Ravenel's Woods, a virgin hemlock forest near Highlands, North Carolina. American Midland Naturalist 22:333-350.
- 669. Oosting, H. J. and W. D. Billings. 1951. A comparison of virgin spruce-fir forest in the northern and southern Appalachian system. Ecology 32:84-103.
- 670. Oosting, H. J. and P. E. Bourdeau. 1955. Virgin hemlock forest segregates in the Joyce Kilmer Memorial Forest of western North Carolina. Botanical Gazette 116:340-359.
- 671. Oosting, H. J. and D. W. Hess. 1956. Microclimate and a relic stand of <u>Tsuga canadensis</u> in the lower Piedmont of North Carolina. Ecology <u>37</u>:28-39.
- 672. Oosting, H. J. and P. J. Kramer. 1946. Water and light in relation to pine reproduction. Ecology 27:47-53.
- 673. Oxendine, L. B. 1971. Ecological analysis of forest understory shrub and herb vegetation in a five-county area of East Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 60 pp.
- 674. Palmer, P. G. 1970. The vegetation of Overton Rock outcrop, Franklin County, North Carolina. Jour. Elisha Mitchell Sci. Soc. 86:80-87.
- 675. Parker, B. C., H. E. Wolfe, and R. V. Howard. 1975. On the origin and history of Mountain Lake, Virginia. Southeastern Geology 16:213-226.

- 676. Parr, P. D. and F. G. Taylor. 1978. Plant species on the Department of Energy-Oak Ridge Reservation that are rare, threatened, or of special concern. Environmental Sciences Division, Publication No. 1144. ORNL/TM 6101. 31 pp.
- 677. Parr, P. D. and F. G. Taylor, Jr. 1979. Plant species on the Department of Energy-Oak Ridge Reservation that are rare, threatened, or of special concern. Jour. Tenn. Acad. Sci. 54:100-102.
- 678. Patterson, D. T. 1976. The history and distribution of five exotic weeds in North Carolina. Castanea 41:177-180.
- 679. Patton, E. G. 1955. The development of white pine forest and soil on abandoned farm lands in the North Carolina Blue Ridge. Ph.D. Dissertation, Duke Univ., Durham, North Carolina. 87 pp.
- 680. Peattie, D. C. 1928-1931. Flora of the Tryon region of North Carolina and South Carolina. Jour. Elisha Mitchell Sci. Soc. 44:95-125, 141-229; 45:59-100, 245-290; 46:129-160.
- 681. Peattie, D. C. 1937. Autumnal notes from the Carolina Blue Ridge. Castanea 2:67-73.
- 682. Peattie, R. (ed.). 1943. The Great Smokies and the Blue Ridge. Vanguard Press: New York. (Men, mountains, and trees, pp. 152-171; Blue Ridge wild flowers, pp. 172-199.) 372 pp.
- 683. Peck, K. W. 1954. Bryophytic unions in the virgin hemlock community of the Joyce Kilmer Memorial Forest. M.S. Thesis, Duke Univ., Durham, North Carolina.
- 684. Peet, R. K. 1979. A bibliography of the vegetation of North Carolina. <u>In Proceedings of the 16th International Phytogeographers Excursion (IPE) 1978</u>, through the southeastern United States. 1:263-297.
- 685. Penfound, W. T. 1971. The spring phenology of plants on the Warren Wilson College Campus (North Carolina) in 1969 and 1970. Jour. Elisha Mitchell Sci. Soc. 87:171-173.
- 686. Perry, J. D. and B. J. Moore. 1969. Preliminary checklist of foliose and fruticose lichens in Buncombe County, North Carolina. Castanea 34:146-157.
- 687. Peterson, C. I. 1935. The forestry work of the Civilian Conservation Corps in Tennessee. Jour. Tenn. Acad. Sci. 10:160-166.
- 688. Pinchot, G. and W. W. Ashe. 1897. Timber trees and forests of North Carolina. North Carolina Geological Survey Bull. No. 6. 227 pp.

- 689. Pittillo, J. D. 1963. Distribution and ecology of <u>Cladrastis</u> lutea. M.S. Thesis, Univ. of Kentucky, Lexington. 33 pp.
- 690. Pittillo, J. D. 1976. Potential natural landmarks of the southern Blue Ridge portion of the Appalachian Ranges Natural Region. U. S. Dept. Interior, National Park Service Report. 372 pp.
- 691. Pittillo, J. D. and T. E. Govus. 1978. A manual of important plant habitats of the Blue Ridge Parkway. U. S. Dept.
 Interior, National Park Service. Report to the Southeastern Regional Office.
- 692. Pittillo, J. D., J. H. Horton, and K. W. Greenlee. 1969.

 Additions to the vascular flora of the Carolinas. I.

 Jour. Elisha Mitchell Sci. Soc. 85:18-22.
- 693. Pittillo, J. D., J. H. Horton, and K. E. Herman. 1972. Additions to the vascular flora of the Carolinas. II. Jour. Elisha Mitchell Sci. Soc. 88:144-152.
- 694. Pittillo, J. D. and G. A. Smathers. 1979. Phytogeography of the Balsam Mountains and Pisgah Ridge, southern Appalachian Mountains. In Proceedings of the 16th International Phytogeographers Excursion (IPE) 1978, through the southeastern United States. 1:206-245.
- 695. Pittillo, J. D., W. H. Wagner, Jr., D. R. Farrar, and S. W. Leonard.
 1975. New pteridiophyte records in the Highlands Biological
 Station area, southern Appalachians. Castanea 40:263-272.
- 696. Platt, R. B. 1951. An ecological study of the Mid-Appalachian shale barrens and of plants endemic to them. Ecological Monographs 21:269-300.
- 697. Pollard, C. L. and W. R. Maxon. 1901. Flora of West Virginia. Biological Society of Washington, Proceedings 14:161-163.
- 698. Poudier, A. D. 1972. Hawksbill Mountain; the plant synecology of its peak and south slope. M.S. Thesis, East Tennessee State Univ., Johnson City, Tennessee.
- 699. Powell, D. S. and E. H. Tryon. 1979. Sprouting ability of advance growth in undisturbed hardwood stands. Canadian Jour. of Forest Research 9:116-120.
- 700. Prather, I. D. 1967. Old-field succession studies in Cades Cove. Independent Study, Biology Department, Maryville College. Maryville, Tennessee.
- 701. Pratt, J. H. 1905. The southern Appalachian forest reserve. Jour. Elisha Mitchell Sci. Soc. 21:156-164.

- 702. Pratt, J. H. and J. S. Holmes. 1914. Can Mt. Mitchell's spruce forests be saved? North Carolina Geologic and Economic Survey Bull. No. 135. 4 pp.
- 703. Pressey, H. A. and E. W. Myers. 1902. Hydrography of the southern Appalachians. In Theodore Roosevelt's (Senate Document No. 84) Message from the President of the United States: Transmitting a report of the Secretary of Agriculture in relation to the forests, rivers, and mountains of the southern Appalachian region. Washington, D. C. 123-142.
- 704. Price, E. T. 1960. Root digging in the Appalachians: The geography of botanical drugs. Geographical Review 50:1-20.
- 705. Price, O. W. 1901. Practical forestry in the southern Appalachians. Yearbook of the United States, Dept. of Agriculture (1900), pp. 357-368.
- 706. Price, O. W. 1902. Lumbering in the southern Appalachians now and under government ownership and supervision. In Theodore Roosevelt's (Senate Document No. 84) Message from the President of the United States: Transmitting a report of the Secretary of Agriculture in relation to the forests, rivers, and mountains of the southern Appalachian region. Washington, D. C., pp. 61-68.
- 707. Price, O. W. 1905. Lumbering in the southern Appalachians. Forestry and Irrigation (October) 11:469-476.
- 708. Price, S. F. 1898. Trees and shrubs of Kentucky. Privately printed.
- 709. Prichard, M. S. 1977. Exploring Savage Gulf: A last chance for wilderness. Tennessee Conservationist (May-June) 43:8-11.
- 710. Pringle, J. S. 1977. <u>Gentiana linearis</u> (Gentianaceae) in the southern Appalachians. Castanea 42:1-8.
- 711. Puckette, S. E. 1957. Comparative description of the native trees of the Sewanee Area. Sewanee Research Center, Univ. of the South, Sewanee, Tennessee. 45 pp.
- 712. Quarterman, E. and C. Keever. 1947. A summer checklist of the vascular plants of the Highlands Region. The Highlands Biological Laboratory, Publication No. 6. 39 pp.
- 713. Quarterman, E., B. H. Turner, and T. E. Hemmerly. 1972. Analysis of virgin mixed meosphytic forests in Savage Gulf, Tennessee. Bull. Torrey Botanical Club 99:228-232.
- 714. Rabenold, K. N. 1978. Foraging strategies, diversity, and seasonality in bird communities of Appalachian spruce-fir forests. Ecological Monographs 48:397-424.

- 715. Racine, C. H. 1965. Pine communities in the Thompson River area of the Blue Ridge escarpment. M.S. Thesis, Duke Univ., Durham, North Carolina.
- 716. Racine, C. H. 1966. Pine communities and their site characteristics on the Blue Ridge escarpment. Jour. Elisha Mitchell Sci. Soc. 82:172-181.
- 717. Racine, C. H. 1969. Tree reproduction in relation to vegetational gradients on slopes in the southern Blue Ridge Mountains. Ph.D. Dissertation, Duke Univ., Durham, North Carolina.
- 718. Racine, C. H. 1971. Reproduction of three species of oak in relation to vegetational and environmental gradients in the southern Blue Ridge. Bull. Torrey Botanical Club 98:297-310.
- 719. Racine, C. H. and J. W. Hardin. 1975. The vascular flora and vegetation in the Green River Gorge, North Carolina. Castanea 40:319-345.
- 720. Radford, A. E. 1948a. The vascular flora of the olivine deposits of North Carolina and Georgia. Ph.D. Dissertation, Univ. of North Carolina, Chapel Hill.
- 721. Radford, A. E. 1948b. The vascular flora of the olivine deposits of North Carolina and Georgia. Jour. Elisha Mitchell Sci. Soc. 64:45-106.
- 722. Radford, A. E. 1952. Range extensions in the flora of North Carolina. Jour. Elisha Mitchell Sci. Soc. 68:105-108.
- 723. Radford, A. E. 1959. A relict plant community in South Carolina. Jour. Elisha Mitchell Sci. Soc. 75:33-34.
- 724. Radford, A. E., H. E. Ahles, and C. R. Bell. 1965. Atlas of the vascular flora of the Carolinas. North Carolina Agric. Expt. Sta. Tech. Bull. No. 165. 208 pp.
- 725. Radford, A. E., H. E. Ahles, and C. R. Bell. 1968. Manual of the vascular flora of the Carolinas. Univ. of North Carolina, Chapel Hill. 1183 pp.
- 726. Radford, J. S. 1971. Spatial and temporal modelling of selected plant phenophases in North Carolina. M.S. Thesis, Univ. of North Carolina, Chapel Hill.
- 727. Radford, S. W. 1968. Factors involved in the maintenance of the grassy balds of the Great Smoky Mountains National Park.
 M.S. Thesis, Univ. of Tennessee, Knoxville. 74 pp.
- 728. Ramseur, G. S. 1958. The vascular flora of high mountain communities of the southern Appalachians. Ph.D. Dissertation, Univ. of North Carolina, Chapel Hill. 110 pp.

- 729. Ramseur, G. S. 1960. The vascular flora of high mountain communities of the southern Appalachians. Jour. Elisha Mitchell Sci. Soc. 76:82-112.
- 730. Ramseur, G. S. 1976. Secondary succession in the spruce-fir forest of the Great Smoky Mountains National Park. U. S. Dept. Interior, National Park Service, SE Region, Uplands Field Research Lab., GSMNP. Management Report No. 7. 35 pp.
- 731. Ranscher, H. M. and D. W. Smith. 1979. Predicting daily radial growth of chestnut oak and pitch pine on a dry mountain site. Forest Service 25:232-236.
- 732. Reader, R. J. 1973. Leaf emergence, leaf coloration and photosynthetic period productivity models for the eastern deciduous forest biome. Ph.D. Dissertation, Univ. of North Carolina, Chapel Hill.
- 733. Reader, R. J., J. S. Radford, and H. Lieth. 1974. Modeling important phytophenological events in eastern North America. <u>In</u>
 H. Lieth (ed.). Phenology and Seasonality Modeling. Springer
 Verlag Co., New York, pp. 329-342.
- 734. Redfield, J. H. 1879. Notes of a botanical excursion into North Carolina. Bull. Torrey Botanical Club 6:331-339.
- 735. Reed, F. W. 1905. Report on an examination of a forest tract in western North Carolina. U. S. Dept. Agric., Bureau of Forestry, Bull. No. 60. 32 pp.
- 736. Richardson, C. J. 1972. The use of stomatal resistance, photopigments, nitrogen, water potential, and radiation to estimate net photosynthesis in <u>Liriodendron tulipifera</u> L.--A physiological index. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 138 pp.
- 737. Rigg, G. B. and P. D. Strausbaugh. 1949. Some stages in the development of sphagnum bogs in West Virginia. Castanea 14:129-148.
- 738. Ringland, M. E. 1976. Forest composition of Rock Creek Gorge, a virgin forest in Laurel County, Kentucky. M.S. Thesis, Western Kentucky Univ., Bowling Green.
- 739. Ritchie, J. C. 1962. Distribution of fallout cesium 137 in litter, humus, and surface soil layers under natural vegetation in the Great Smoky Mountains. M.S. Thesis, Univ. of Tennessee, Knoxville. 47 pp.
- 740. Roberts, E. V. 1940. Appalachian forest experiment station:
 Major forest types of States in the region. U. S. Dept.
 Agric., Forest Service. Appalachian For. Expt. Station.

- 741. Roberts, E. V. and J. W. Cruikshank. 1941. The distribution of commercial forest trees in North Carolina. U. S. Dept. Agric., Forest Service. Appalachian For. Expt. Station, Forest Survey Release No. 8. 27 pp.
- 742. Robinette, S. L. 1966. A vegetation map of the major plant communities of Cranesville Swamp. Proceedings West Virginia Acad. Sci. 38:46-49.
- 743. Robinson, J. F. 1968. Natural variation in Abies of the southern Appalachians. M.S. Thesis, Univ. of Tennessee, Knoxville. 84 pp.
- 744. Robinson, J. F. and E. Thor. 1969. Natural variation in Abies of the southern Appalachians. Forest Science 15:238-245.
- 745. Robinson, T. S. 1966. Effects of canopy density and slope exposure on the sub-canopy microenvironment of a northern hardwood forest. American Midland Naturalist 75:339-346.
- 746. Robinson, W. C. 1960. Spruce Knob revisited: A half-century of vegetation change. Castanea 25:53-61.
- 747. Rock, D. A. 1961. A program of sustained yield forestry in the Appalachian hardwood region. Jour. Forestry 59:114-118.
- 748. Rodgers, C. L. 1942. The plant communities of Table Rock,
 Pickens County, South Carolina. M.S. Thesis, Duke Univ.,
 Durham, North Carolina.
- 749. Rodgers, C. L. 1955. Vascular plants of Table Rock Mountain, South Carolina. Castanea 20:133-143.
- 750. Rodgers, C. L. 1965. The vegetation of the Horsepasture Gorge.

 Jour. Elisha Mitchell Sci. Soc. 81:103-112.
- 751. Rodgers, C. L. 1969. Vascular plants in Horsepasture Gorge. Castanea 34:374-394.
- 752. Rodgers, C. L. and R. E. Shake. 1965. Survey of vascular plants in Bearcamp Creek watershed. Castanea 30:149-166.
- 753. Rodriguez, L. E. 1973. Evaluation of site quality of an upland hardwood forest at Scott County, Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 114 pp.
- 754. Roger, W. and B. L. Barbour. 1950. Notes on the plants of Harlan County, Kentucky. Castanea 15:125.
- 755. Rogers, K. E. and F. D. Bowers. 1969. Notes on Tennessee Plants I. Castanea 34:394-397.
- 756. Rogers, K. E. and F. D. Bowers. 1971. Notes on Tennessee plants II. Castanea 36:191-194.

- 757. Rogers, K. E. and F. D. Bowers. 1973. Notes on Tennessee Plants III. Castanea 38:335-339.
- 758. Rogers, R. S. 1978. Forests dominated by hemlock (<u>Tsuga</u> canadensis): Distribution as related to site and post-settlement history. Canadian Jour. Botany 56:843-854.
- 759. Roller, J. H. 1942. Effect of heat and light on red spruce. Castanea 7:49-50.
- 760. Romancier, R. M. 1970. Ecology of the seedling establishment of Rhododendron maximum L. in the southern Appalachians.

 Ph.D. Dissertation, Duke Univ., Durham, North Carolina.
 189 pp.
- 761. Romancier, R. M. 1971. Combining fire and chemicals for the control of rhododendron thickets. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station, Research Note No. SE-149. 7 pp.
- 762. Roosevelt, T. 1902. Message from the President of the United States: Transmitting a report of the Secretary of Agriculture in relation to the forests, rivers, and mountains of the southern Appalachian Region. Senate Document No. 84. U. S. Government Printing Office, Washington, D. C. 210 pp.
- 763. Roper, E. W. 1971. Prediction of growth of <u>Pinus strobus</u> L.,

 <u>Pinus echinata Mill.</u>, and <u>Liriodendron tulipifera L. M.S.</u>

 Thesis, Univ. of Tennessee, Knoxville. 118 pp.
- 764. Rotacher, J. S., F. E. Blow, and S. M. Potts. 1954. Estimating the quantity of tree foliage in oak stands in the Tennessee Valley. Jour. Forestry 52:169-173.
- 765. Rudolph, W. K. 1963. Concentrations of gamma-emitting fallout radionuclides from <u>Picea rubens</u> and <u>Rhododendron maximum</u> of the Great Smoky Mountains. M.S. Thesis, Univ. of Tennessee, Knoxville. 38 pp.
- 766. Runkle, J. R. 1978. Gap phase dynamics in climax mesic forests. Ph.D. Dissertation, Cornell Univ., Ithaca, New York. 289 pp.
- 767. Russell, N. H. 1953. The beech gaps of the Great Smoky Mountains. Ecology 34:366-374.
- 768. Rydberg, P. A. 1926. Botanizing in the higher Allegheny Mountains. Jour. New York Botanical Garden 27:1-6.
- 769. Safley, J. M. 1970. Vegetation of the Big South Fork Cumberland River, Kentucky and Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 148 pp.

- 770. Samman, S. A. 1973. Identification of some compounds in the inner bark of American chestnut (Castanea dentata) (Marsh.)
 Borkh. M.S. Thesis, Univ. of Tennessee, Knoxville. 57 pp.
- 771. Samman, S. A. 1978. Chemical composition of <u>Castanea</u> inner bark related to <u>in-vitro</u> growth of <u>Endothia parasitica</u>. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 116 pp.
- 772. Sander, I. L. 1972. Size of oak advance reproduction: Key to growth following harvest cutting. U. S. Dept. Agric., Forest Service. North Central For. Expt. Station, Research Paper No. NC-79. 6 pp.
- 773. Sander, I. L. and F. B. Clark. 1971. Reproduction of upland forests in the central states. U. S. Dept. Agric., Forest Service. Agriculture Handbook No. 405. 25 pp.
- 774. Santee, W. R. 1978. A dimensional analysis of eastern hemlock (Tsuga canadensis). M.S. Thesis, Univ. of Georgia, Athens.
- 775. Sargent, R. M. 1977. Biology of the Blue Ridge. Highlands Biological Foundation, Inc., Highlands, North Carolina. 157 pp.
- 776. Saunders, P. R. 1979. The vegetational impact of human disturbance on the spruce-fir forests of the southern Appalachians. Ph.D. Dissertation, Duke Univ., Durham, North Carolina. 177 pp.
- 777. Schmalzer, P. A. 1978. Classification and analysis of forest communities in several coves of the Cumberland Plateau in Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 208 pp.
- 778. Schmalzer, P. A., C. R. Hinkle, and H. R. DeSelm. 1978.

 Discriminant analysis of cove forests of the Cumberland

 Plateau of Tennessee. In P. E. Pope (ed.). Central Hardwoods

 Forest Conference II, Proceedings. Purdue Univ., West

 Lafayette, Indiana, pp. 62-86.
- 779. Schofield, W. B. 1960. The ecotone between spruce-fir and deciduous forest in the Great Smoky Mountains. Ph.D. Dissertation, Duke Univ., Durham, North Carolina. 176 pp.
- 780. Schomaker, C. E. 1958. Two-year results of planting yellow poplar in north Alabama. Jour. Forestry <u>56</u>:37-38.
- 781. Schrender, H. T. and W. T. Swank. 1973. Statistical considerations in sampling biomass and surface area over time for a Pinus strobus L. forest. In H. Young (ed.). Proceedings of the Working Party on Forest Biomass of IUFRO. Univ. of Maine Press, Orono, pp. 133-141.

- 782. Schumacher, F. X. and T. S. Coile. 1960. Growth and yield of natural stands of southern pines. T. S. Coile, Inc.: Durham, North Carolina. 115 pp.
- 783. Schwarzkopf, S. K. 1974. Comparative vegetation analysis of five spruce-fir areas in the southern Appalachians. Honors Thesis, Furman Univ., Greeneville, South Carolina. 117 pp.
- 784. Scott, C. D. 1973. Seasonal food habits of European wild hogs (Sus scrofa) in the Great Smoky Mountains National Park.
 M.S. Thesis, Univ. of Tennessee, Knoxville. 54 pp.
- 785. Scribner, F. L. 1889. The grasses of Roane Mountain. Botanical Gazette 14:253-255.
- 786. Sears, P. B. 1942. Postglacial migration of five forest genera.

 American Jour. Botany 29:684-691.
- 787. Segars, C. B., L. C. Crawford, and A. M. Harvill. 1951. The occurrence and distribution of hemlock in Alabama. Ecology 32:149-151.
- 788. Shaler, N. S. and A. R. Crandall. 1884. Reports of the forest of Greenup, Carter, Boyd, and Lawrence Counties, Kentucky.

 In Kentucky Geological Survey (Timber and Botany-B), pp. 1-26.
- 789. Shanks, R. E. 1952a. Checklist of the woody plants of Tennessee. Jour. Tenn. Acad. Sci. 27:27-50.
- 790. Shanks, R. E. 1952b. Notes on woody plant distribution in Tennessee. Castanea 17:90-96.
- 791. Shanks, R. E. 1954a. Climates of the Great Smoky Mountains. Ecology <u>35</u>:354-361.
- 792. Shanks, R. E. 1954b. Plotless sampling trials in Appalachian forest types. Ecology 35:237-244.
- 793. Shanks, R. E. 1954c. Woody plants of Tennessee: First supplement. Jour. Tenn. Acad. Sci. 28:158-159.
- 794. Shanks, R. E. 1954d. Woody plants of Tennessee: Second supplement. Jour. Tenn. Acad. Sci. 29:234-237.
- 795. Shanks, R. E. 1956. Altitudinal and microclimatic relationships of soil temperature under natural vegetation. Ecology 37:1-7.
- 796. Shanks, R. E. 1958. Floristic regions of Tennessee. Jour. Tenn. Acad. Sci. 33:195-210.
- 797. Shanks, R. E. and E.E.C. Clebsch. 1962. Computer programs for the estimation of forest stand weight and mineral pool. Ecology 43:339-341.

- 798. Shanks, R. E. and F. H. Norris. 1950. Microclimatic variation in a small valley in eastern Tennessee. Ecology 31:532-539.
- 799. Shanks, R. E. and J. S. Olson. 1961. First-year breakdown of leaf litter in southern Appalachian forests. Science 134:194-195.
- 800. Shanks, R. E. and A. J. Sharp. 1947. Summer key to the trees of eastern Tennessee. Jour. Tenn. Acad. Sci. 22:114-133.
- 801. Shanks, R. E. and A. J. Sharp. 1963. Summer key to Tennessee trees. Univ. of Tennessee Press, Knoxville. 24pp.
- 802. Shantz, H. L. and R. Zon. 1924. The natural vegetation of the United States. In O. E. Baker (ed.), 1936. Atlas of American Agriculture. U. S. Dept. Agric. U. S. Gov. Printing Office, Washington, D. C., pp.1-29.
- 803. Sharp, A. J. 1939. Taxonomic and ecological studies of eastern Tennessee bryophytes. American Midland Naturalist 21:267-354.
- 804. Sharp, A. J. 1941a. The Great Smoky Mountains National Park, an important botanical area. Chronica Botanica 6:296-297.
- 805. Sharp, A. J. 1941b. Some historical factors and the distribution of southern Appalachian bryophytes. Bryologist 44:16-18.
- 806. Sharp, A. J. 1951a. The relation of the Eocene Wilcox flora to some modern floras. Evolution 5:1-5.
- 807. Sharp, A. J. 1951b. Relationships between the floras of California and southeastern United States. Contributions from the Dudley Herbarium 4:59-61.
- 808. Sharp, A. J. 1955. Elements in the Tennessee flora with tropical relationships. Jour. Tenn. Acad. Sci. 30:53-56.
- 809. Sharp, A. J. 1957. Vascular epiphytes in the Great Smoky Mountains. Ecology 38:654-655.
- 810. Sharp, A. J. 1963. Further observations on vascular epiphytes in the Smoky Mountains. Castanea 28:48.
- 811. Sharp, A. J. 1970. Epilogue. <u>In</u> P. C. Holt (ed.). The Distributional History of the Biota of the Southern Appalachians.

 Part II: Flora. Research Division Monograph 2. Virginia
 Polytechnic Institute and State Univ., Blacksburg, Virginia.
 2:405-410.
- 812. Sharpe, D. M. 1976. Net primary productivity and phytomass of forests of the Tennessee Valley. In J. S. Fralish, G. T. Weaver, and R. C. Schesenger (eds.). Central Hardwoods Forest Conference I, Proceedings. Southern Illinois Univ., Carbondale, Illinois, pp. 387-399.

- 813. Sharpe, D. M. and W. C. Johnson. 1973. Biomass dynamics of the commercial forests of the Tennessee Valley. In H. Young (ed.). Proceedings of the Working Party on Forest Biomass of IUFRO. Univ. of Maine Press, Orono, pp. 143-158.
- 814. Shaver, J. M. 1926. Flowers of the Great Smokies. Jour. Tenn. Acad. Sci. 1(2):17-20.
- 815. Shea, J. P. 1940. Our pappies burned the woods. American Forests 46:159-162, 174.
- 816. Shelford, V. E. 1963. The temperate deciduous forest biome:

 Northern and upland regions (p. 17-55). In The ecology of
 North America. Univ. of Illinois Press, Urbana. 610 pp.
- 817. Shelton, N. 1975. The nature of Shenandoah. Natural History Series. Office of publications, National Park Service, U. S. Dept. Interior. 112 pp.
- 818. Sherman, H. L. 1958. The vegetation and floristics of five gorges of the Cumberland Plateau. M.S. Thesis, Univ. of Tennessee, Knoxville. 103 pp.
- 819. Sherman, M. D. 1978. Community composition, species diversity, forest structure and dynamics as affected by soil and site factors and selective logging in Savage Gulf, Tennessee.

 M.S. Thesis, Univ. of Tennessee, Knoxville. 146 pp.
- 820. Shields, A. R. 1962. The isolated spruce and spruce-fir forests of southwestern Virginia, a biotic study. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 174 pp.
- 821. Shreve, F., M. A. Chrysler, F. H. Blodgett, and F. W. Besley.
 1910. The plant life of Maryland. Maryland Weather Service,
 Special Publication 3:1-533. Johns Hopkins Press, Baltimore,
 Maryland.
- 822. Shugart, H. H., Jr., D. E. Reichle, N. T. Edwards, and J. R. Kercher.
 1976. A model of calcium-cycling in an east Tennessee
 Liriodendron forest: Model structure, parameters and frequency
 response analysis. Ecology 57:99-109.
- 823. Shugart, H. H., Jr., and D. C. West. 1977. Development of an Appalachian deciduous forest succession model and its application to assessment of the impact of the chestnut blight. Jour. Environmental Management 5:161-179.
- 824. Shugart, H. H. and D. C. West. 1979. Size and pattern of simulated forest stands. Forest Science 25:120-122.
- 825. Simpson, D. T. 1958. An ecological survey of Flat Rock Mountain. Thesis, Appalachian State Univ., Boone, North Carolina.

- 826. Sims, I. H. 1932a. Establishment and survival of yellow-poplar following clearcutting in the southern Λppalachians. Jour. Forestry 30:409-414.
- 827. Sims, I. H. 1932b. Litter deposition and accumulation in the pine-oak type of the southern Appalachians. Jour. Forestry 30:90-91.
- 828. Sims, T. H. 1932c. Specific differences in basal wounding by fire of southern Appalachian hardwood trees. Jour. Elisha Mitchell Sci. Soc. 48:17.
- 829. Skeen, J. N. 1973a. Biomass and productivity estimates for a temperate mesic slope forest. Jour. Tenn. Acad. Sci. 48:103-105.
- 830. Skeen, J. N. 1973b. A quantitative assessment of forest composition in an east Tennessee mesic slope forest. Castanea 38:322-327.
- 831. Slack, N. G. 1974. Species diversity and dynamic relationships of epiphytic communities in a hemlock-hardwood forest. First International Congress of Systematic and Evolutionary Biology Abstracts, University of Colorado, Boulder.
- 832. Slocum, G. K. and W. D. Miller. 1953. Virginia pine: Reproduction, growth, and management on the Hill Demonstration Forest, Durham County, North Carolina. North Carolina Agric. Expt. Sta. Tech. Bull. No. 100. 52 pp.
- 833. Small, J. K. 1933. Manual of southeastern flora. Science Press Printing Co., Philadelphia and New York. 1554 pp.
- 834. Small, J. K. and A. A. Heller. 1892. Flora of western North Carolina and contiguous territory. Mem. Torrey Botanical Club $\underline{3}$:1-39.
- 835. Small, J. K. and A. M. Vail. 1893. Report of the botanical exploration of southwestern Virginia during the season of 1892. Mem. Torrey Botanical Club. Volume 4:93-202.
- 836. Small, J. M. 1901. The summit flora of King's Mountain and Crowder's Mountain, North Carolina. Torreya 1:7-8.
- 837. Smalley, G. W. and K. Pierce. 1972. Yellow-poplar, loblolly pine, and Virginia pine compared in Cumberland Plateau plantations.
 U. S. Dept. Agric., Forest Service. Southern For. Expt. Station, Research Note No. S0-141. 6 pp.
- 838. Smallshaw, J. 1953. Some precipitation and altitude studies of the Tennessee Valley Authority. Trans. Amer. Geoph, Union 34:583-588.

- 839. Smith, D. W. 1968. Vegetational changes in a five-county area of East Tennessee during secondary succession. M.S. Thesis, Univ. of Tennessee, Knoxville. 95 pp.
- 840. Smith, H. C. and N. I. Lamson. 1977. Stand development 25 years after a 9.0-inch diameter-limit first cutting in Appalachian hardwoods. U.S. Dept. Agric., Forest Service. Northeastern For. Expt. Station, Research Paper No. NE-379. 4 pp.
- 841. Smith, H. W., Jr. 1963. Establishment of yellow poplar (Liriodendron tulipifera) in canopy openings. Ph.D. Dissertation, Yale Univ., New Haven, Connecticut.
- 842. Smith, L. R. 1977. The swamp and mesic forests of the Cumberland Plateau in Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 121 pp.
- 843. Smith, R. C. 1963. Some aspects of variation in growth and development of Rhododendron maximum L. in western North Carolina. M.S. Thesis, North Carolina State Univ., Raleigh.
- 844. Society of American Foresters. 1962. Forest cover types of North America. Society of American Foresters, Washington, D. C. 67 pp.
- 845. Sollins, P. 1972. Organic matter budget and model for a southern Appalachian Liriodendron forest. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 150 pp.
- 846. Sollins, P. and R. M. Anderson. 1971. Dry weight and other data for trees and woody shrubs of the southeastern United States.

 Oak Ridge National Laboratory. U. S. Ecological Sciences Division, Pub. No. 407, ORNL-IBP-71-6. 80 pp.
- 847. Sollins, P., D. E. Reichle, and J. S. Olson. 1973. Organic matter budget and model for a southern Appalachian <u>Liriodendron</u> forest. Oak Ridge National Laboratory, EDFB-IBP-73-2. 150 pp.
- 848. Speers, C. F. 1958. The balsam woolly aphid in the southeast. Jour. Forestry <u>56</u>:515-516.
- 849. Spring, P. 1973. Population dynamics of <u>Acer rubrum</u>, <u>Cornus florida</u>, and <u>Quercus prinus</u> in watershed 18 ecosystem at Coweeta. M.S. Thesis, Univ. of Georgia, Athens.
- 850. Stamper, P. G. 1976. Vegetation of Beech Mountain, North Carolina.
 M.S. Thesis, Univ. of Tennessee, Knoxville. 185 pp.
- 851. Stegeman, L. C. 1938. The European wild boar in the Cherokee National Forest, Tennessee. Jour. Mammal. 19:279-290.
- 852. Stephens, L. A. 1969. A comparison of climatic elements at four elevations in the Great Smoky Mountains National Park. M.S. Thesis, Univ. of Tennessee, Knoxville. 119 pp.

- 853. Stephenson, S. L. 1974. Ecological composition of some former oak-chestnut communities in western Virginia. Castanea 39:278-286.
- 854. Sternitzke, H. S. 1955. Tennessee's timber economy. U. S. Dept. Agric., Forest Service. Forest Resource Report No. 9. 56 pp.
- 855. Sternitzke, H. S. 1962. Tennessee forests. U. S. Dept. Agric., Forest Service. Southern For. Expt. Station. Forest Service Survey Release No. 86. 29 pp.
- 856. Sterrett, W. D. 1903. The white pine in the southern Appalachians.
 M.F. Thesis, Yale Univ. School of Forestry. New Haven,
 Connecticut.
- 857. Stevens. C. E. 1968. A remarkable disjunct occurrence of <u>Cornus</u> canadensis in the Virginia Blue Ridge.. Castanea 33:247-248.
- 858. Stewart, R. E. and J. W. Aldrich. 1949. Breeding bird populations in the spruce region of the central Appalachians. Ecology 30:75-82.
- 859. Stickel, P. W. 1930. Artificial versus natural replacement on blight-killed chestnut land. Jour. Forestry 28:572-573.
- 860. Stockbridge, H. E. 1911. A bibliography of the southern Appalachian and White Mountain regions. Proceedings of the Society of American Foresters 6(2):173-254.
- 861. Strausbaugh, P. D. 1934. Cranberry Glades. American Forests $\underline{40}$: 362-364, 382-383.
- 862. Strausbaugh, P. D. and E. L. Core. 1964. Flora of West Virginia. Seneca Books, Inc., Grantsville, West Virginia. 1079 pp.
- 863. Strickland, M. D. 1972. Production of mast by selected species of oak (Quercus sp.) and its use by wildlife on the Tellico Wildlife Management Area, Monroe County, Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 63 pp.
- 864. Strock, W. G., Jr. 1970. Forest management plan: Atomic Energy Commission, Oak Ridge Reservation: 1970-1975. Oak Ridge National Laboratory Publication TM-3175. 26 pp.
- 865. Stupka, A. 1962. Trees of the Smoky Mountains. Tennessee Conservationist July:8-10.
- 866. Stupka, A. 1964. Trees, shrubs, and woody vines of the Great Smoky Mountains National Park. Univ. of Tennessee Press, Knoxville. 186 pp.

- 867. Sudworth, G. B. and J. B. Killebrew. 1897. The forests of Tennessee: Their extent, character, and distribution. Tennessee Industrial League. Publishing House of M. E. Church, South. Nashville, Tennessee. 32 pp.
- 868. Sulzer, E. G. 1975. Ghost railroads of Tennessee. Vane A. Jones Company, Publishers: Indianapolis, Indiana. 328 pp.
- 869. Summers, D. D. 1968. Relationships of soil, site, and time on the changes in forest composition on Big Ridge Natural Study Area, Union County, Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 113 pp.
- 870. Swank, W. T. and N. H. Miner. 1968. Conversion of hardwood-covered watersheds to white pine reduces water yield. Water Resources Research 4:947-954.
- 871. Swank, W. T. and H. T. Schreuder. 1973. Temporal changes in biomass, surface area, and net production for a <u>Pinus strobus</u>
 L. forest. <u>In H. Young (ed.)</u>. Proceedings of the Working Party on Forest Biomass of IUFRO. Univ. of Maine Press, Orono, pp. 171-182.
- 872. Swank, W. T. and H. T. Schreuder. 1974. Comparison of three methods of estimating surface area and biomass for a forest of young eastern white pine. Forest Science 20:91-100.
- 873. Swift, L. W., Jr. 1960. The effects of mountain topography upon solar energy theoretically available for evapotranspiration.

 M.S. Thesis, North Carolina State College, Durham. 76 pp.
- 874. Swift, L. W., Jr. 1972. Effects of forest cover and mountain physiography on the radiant energy balance. Ph.D. Dissertation, Duke Univ., Durham, North Carolina. 87 pp.
- 875. Swift, L. W., Jr. 1976. Algorithm for solar radiation on mountain slopes. Water Resources Research 12:108-112.
- 876. Swift, L. W., Jr., and K. R. Knoerr. 1973. Estimating solar radiation on mountain slopes. Agricultural Meteorology 12:329-336.
- 877. Tanner, J. C. 1963. Mountain temperatures in the Southeastern and Southwestern United States during late spring and early summer. Jour. Applied Meteorology 2:473-483.
- 878. Taylor, F. G., Jr. 1969a. Oak Ridge, Tennessee, flora: 2.

 Spring flowering dates. Univ. of Tennessee Arboretum Soc.
 Bull. 1:13-19.
- 879. Taylor, F. G., Jr. 1969b. Phenological records of vascular plants at Oak Ridge, Tennessee. Oak Ridge National Lab. ORNL-IBP-69-1. 46 pp.

- 880. Taylor, F. G., Jr. 1972. Phenodynamics of production in a mesic deciduous forest. Oak Ridge National Lab., Environmental Sciences Division. EDFB-IBP-72-8. 44 pp.
- 881. Tennessee Valley Authority. 1941. Areas characterized by principal forest types in the Tennessee Valley (map). TVA Dept. of Forestry Relations. Norris, Tennessee.
- 882. Tennessee Valley Authority. 1956a. Forest inventory statistics, Blount County, Tennessee. Forestry Bull. No. 39. Norris, Tennessee. 18 pp.
- 883. Tennessee Valley Authority. 1956b. Forestry inventory statistics, Sevier County, Tennessee. Forestry Bull. No. 41. Norris, Tennessee. 18 pp.
- 884. Tennessee Valley Authority. 1958. Forest development on the Cumberland Plateau. Report No. 222-58. Norris, Tennessee. 20 pp.
- 885. Tennessee Valley Authority. 1960. Forest inventory statistics, Roane County, Tennessee. Forestry Bull. No. 80. Norris, Tennessee. 16 pp.
- 886. Tennessee Valley Authority. 1965. Forest inventory statistics, Morgan County, Tennessee. Forestry Bull. No. 21. Norris, Tennessee. 14 pp.
- 887. Tennessee Valley Authority. 1971. Forest inventory statistics,
 Blount-Sevier County unit. Forestry Bull. No. 150. Norris,
 Tennessee. 19 pp.
- 888. Tennessee Valley Authority. 1976. Forest inventory statistics, Anderson-Knox-Union County unit. Forestry Bull. No. 117.
 Norris, Tennessee. 19 pp.
- 889. Thomas, R. D. 1966. The vegetation and flora of Chilhowee Mountain. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 355 pp.
- 890. Thomas, R. D. 1976. The vascular flora of Chilhowee Mountain, Blount and Sevier Counties, Tennessee. Jour. Tenn. Acad. Sci. 51:118-123.
- 891. Thomas, W. A. and D. F. Grigal. 1976. Phosphorus conservation by evergreenness of mountain laurel. Oikos 279:19-26.
- 892. Thompson, D. R. and T. M. Hinckley. 1977. Effect of vertical and temporal variations in stand microclimate and soil moisture on water status of special species in an oak-hickory forest.

 American Midland Naturalist 97:373-380.

- 893. Thor, E. 1974. White pines from the southern Appalachians.

 Proc. 9th Central States Forest Tree Improvement Conference.

 145-152.
- 894. Thor, E. and P. E. Barnett. 1974. Taxonomy of Abies in the southern Appalachians: Variations in balsam and wood properties. Forest Science 20:32-40.
- 895. Thor, E., H. R. DeSelm and W. H. Martin. 1969. Natural reproduction on upland sites in the Cumberland Mountains of Tennessee. Jour. Tenn. Acad. Sci. 44:96-100.
- 896. Thor, E. and W. R. Gall. 1978. Variation in air pollution tolerance and growth rate among progenies of southern Appalachian white pine. Proc. Second Metropolitan Tree Improvement Alliance, pp. 80-86.
- 897. Thor, E. and G. M. Nichols. 1974. Some effects of fires on litter soil and hardwood regeneration in Middle Tennessee. Proc. Tall Timbers Fire Ecol. Conf. 13:317-330.
- 898. Thor, E. and D. D. Summers. 1971. Changes in forest composition on Big Ridge natural study area, Union County, Tennessee.

 Castanea 36:114-122.
- 899. Thorne, R. F. and T. S. Cooperrider. 1960. The flora of Giles County, Virginia. Castanea 25:1-53.
- 900. Toole, R. E. 1949. White pine blight in the Southeast. Jour. Forestry 47:378-382.
- 901. Tramer, E. J., D. E. Suhrweir, and W. F. Straka. 1975. Letters to the Editors; Seed dispersal and tree species diversity:

 Another analysis. American Naturalist 110:500-501.
- 902. Transeau, E. N. 1905. Forest centers of eastern North America. American Naturalist 39:875-889.
- 903. Trentham, S. O. 1930. Vegetation of the artificial lakes of western North Carolina. M.S. Thesis, Duke Univ., Durham, North Carolina.
- 904. Trimble, G. R., Jr. 1960. Relative diameter growth rates of five upland oaks in West Virginia. Jour. Forestry 58:111-115.
- 905. Trimble, G. R., Jr., and G. Hart. 1961. An appraisal of early reproduction after cutting in northern Appalachian hardwood stands. U. S. Dept. Agric., Forest Service. Northeastern For. Expt. Station Paper No. 162. 22 pp.
- 906. Trimble, G. R., Jr., and E. H. Tryon. 1966. Crown encroachment into openings cut in Appalachian hardwood stands. Jour. Forestry 64:104-108.

- 907. Trimble, G. R. and S. Weitzman. 1956. Site index studies of upland oaks in the northern Appalachians. Forest Science 2:162-173.
- 908. Tubbs, C. H. 1973. Alleopathic relationship between yellow birch and sugar maple seedlings. Forest Science 19:139-145.
- 909. Tucker, G. E. 1967. The vascular flora of Bluff Mountain, Ashe County, North Carolina. M.S. Thesis, Univ. of North Carolina, Chapel Hill.
- 910. Tucker, G. E. 1972. The vascular flora of Bluff Mountain, Ashe County, North Carolina. Castanea 37:2-26.
- 911. Tucker, L. W. 1973. Vegetational analysis of the Joyce Kilmer Memorial Forest. M.A. Thesis, Western Carolina Univ., Cullowhee, North Carolina. 79 pp.
- 912. Turner, W. N. 1954. Geologic events in western North Carolina and some of their effects upon early occupancy of the region. Bull. Western Carolina College Faculty Studies 31:3-9.
- 913. United States Department of Agriculture, Bureau of Entomology and Plant Quarantine. 1954. White pine blister rust control in the southern Appalachian area. Annual report for 1953.
- 914. United States Department of Agriculture, Forest Service. 1940.

 National forests in the southern Appalachians. Southern
 Region, Atlanta, Georgia. U. S. Government Printing Office,
 Washington, D. C. 46 pp.
- 915. United States Department of Agriculture, Forest Service. 1947.
 Bibliography of the Appalachian Forest Experiment Station,
 1921-1946. Southeastern For. Expt. Station, Asheville,
 North Carolina. 192 pp.
- 916. United States Department of Interior, National Park Service.
 1975-1981. Annual scientific research meetings. Southeast
 Region, Great Smoky Mountains National Park, Gatlinburg,
 Tennessee.
- 917. United States Department of Interior, National Park Service. 1979.

 Proceedings of the second conference on scientific research in the National Parks. 12 Volumes. (San Francisco, California, November 1979.) 426 pp.
- 918. United States Soil Conservation Service. 1969a. Soil survey interpretations for woodlands in the Cumberland Plateau and Mountains and the southern Appalachian ridges and valleys of Alabama, Georgia, and Tennessee. Progress Report W-11. Fort Worth, Texas. 30 pp.

- 919. United States Soil Conservation Service. 1969b. Soil survey interpretations for woodlands in the southern Blue Ridge area of Georgia, North Carolina, South Carolina, and Tennessee. Progress Report W-12. Fort Worth, Texas. 22 pp.
- 920. Vimmerstedt, J. P. 1957. Estimating diameter at breast height from stump diameter in southern Appalachian species. U. S. Dept. Agric., Forest Service. Southeastern For. Expt. Station, Research Note No. 110. 2 pp.
- 921. Wade, G. L. 1977. Dry phase vegetation of the uplands of the Cumberland Plateau of Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 116 pp.
- 922. Waggoner, G. S. 1972. A discussion and inventory of natural areas in the oak-pine and southeastern evergreen forest regions.

 M.S. Thesis, North Carolina State Univ., Raleigh.
- 923. Waggoner, G. S. 1975. Eastern deciduous forest, Volume I. Southeastern evergreen and oak-pine region. U. S. Dept. Interior, National Park Service, Natural History Theme Studies No. 1. 206 pp.
- 924. Wagner, W. H., Jr., D. R. Farrar, and B. W. McAlpin. 1970.
 Pteridology of the Highlands Biological Station area,
 southern Appalachians. Jour. Elisha Mitchell Sci. Soc.
 86:1-27.
- 925. Wahlenberg, W. G. 1950. A long-term test. A quarter century of forest regrowth in a cut-over and cleaned Appalachian cove. Southern Lumberman 181:183-187.
- 926. Wahlenberg, W. G. 1951. Planting in the Appalachian spruce-fir type. Jour. Forestry 49:569-571.
- 927. Wahlenberg, W. G. 1953. Three methods of rehabilitation for depleted Appalachian hardwood stands. Jour. Forestry 51:874-880.
- 928. Walker, G. L. 1978. A comparative vegetational analysis of cove hardwood forests. M.S. Thesis, Western Carolina Univ., Cullowhee, North Carolina.
- 929. Walker, L. C. 1964. Humus types of the Highlands area of North Carolina. Jour. Elisha Mitchell Sci. Soc. 80:24-29.
- 930. Ward, D. B. 1962. The first record of Fraser Fir. Castanea 27:78-79.
- 931. Ware, D.M.E. 1973. Floristic survey of the Thompson River watershed. Castanea 38:349-378.

- 932. Watts, W. A. 1970. The full-glacial vegetation of northwestern Georgia. Ecology 51:17-33.
- 933. Watts, W. A. 1975. Vegetation record for the last 20,000 years from a small marsh on Lookout Mountain, northwestern Georgia. Geological Soc. America Bull. 86:287-291.
- 934. Weaver, G. T. 1972. Dry matter and nutrient dynamics in red spruce-fraser fir and yellow birch ecosystems in the Balsam Mountains, Western North Carolina. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 406 pp.
- 935. Weaver, G. T. and H. R. DeSelm. 1973. Biomass distributional patterns in adjacent coniferous and deciduous forest ecosystems.

 In H. Young (ed.). Proceedings of the Working Party on Forest Biomass of IUFRO. Univ. of Maine Press, Orono, pp. 413-427.
- 936. Weitzman, S. and G. R. Trimble, Jr. 1957. Some natural factors that govern the management of oaks. U. S. Dept. Agric., Forest Service. Northeastern For. Expt. Station Paper No. 88. 40 pp.
- 937. Welch, R. W. 1950. Increase in white pine area and density in the southern Appalachian region, 1944-1949. U. S. Dept. Agric., Division of Plant Disease Control. Technical Memorandum No. 21.
- 938. Wells, B. W. 1924. Major plant communities of North Carolina. North Carolina Agric. Expt. Sta. Tech. Bull. <u>25</u>:1-20.
- 939. Wells, B. W. 1932. The natural gardens of North Carolina. Univ. of North Carolina Press, Chapel Hill. 458 pp.
- 940. Wells, B. W. 1936a. Andrews Bald: The problem of its origin. Castanea 1:59-62.
- 941. Wells, B. W. 1936b. Origin of the southern Appalachian grass balds. Science 83:283.
- 942. Wells, B. W. 1937. Southern Appalachian grass balds. Jour. Elisha Mitchell Sci. Soc. 53:1-26.
- 943. Wells, B. W. 1938. Southern Appalachian grass balds as evidence of Indian occupation. Bull. Arch. Soc. North Carolina <u>5</u>:2-7.
- 944. Wells, B. W. 1946. Archeological disclimaxes. Jour. Elisha Mitchell Sci. Soc. 62:51-53.
- 945. Wells, B. W. 1956. Origin of southern Appalachian grass balds. Ecology 37:592.

- 946. Wells, B. W. 1961. The southern Appalachian grass bald problem. Castanea 26:98-100.
- 947. Wells, B. W. and L. A. Whitford. 1976. History of stream-head swamp forests, pocosins, and savannahs in the southeast. Jour. Elisha Mitchell Sci. Soc. 92:148-150.
- 948. Wendel, G. W. and G. R. Trimble, Jr. 1968. Early reproduction after seed tree harvest cuttings in Appalachian hardwoods.

 U. S. Dept. Agric. Forest Service. Northeastern For. Expt. Station, Research Paper No. NE-99. 16 pp.
- 949. West, D. C. 1970. Quantitative description of oak-chestnut forests disturbed by the chestnut blight. M.S. Thesis,
 East Tennessee State Univ., Johnson City, Tennessee. 59 pp.
- 950. West, D. C. 1974. Forest population structure in the southeastern United States. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 236 pp.
- 951. West, D. C., F. G. Goff, and W. C. Johnson. 1976. Forest population structure in the southeastern United States. Oak Ridge National Lab., Environmental Sciences Division. EDFB-IBP 75-14. 122 pp.
- 952. Westveld, M. 1953. The ecology and silviculture of spruce-fir forests of eastern North America. Jour. Forestry 51:422-430.
- 953. Wetzell, D. B. 1893. Timbers of East Tennessee. pp. 71-92. <u>In</u>
 East Tennessee (no editor given). A. D. Smith and Company:
 Chattanooga, Tennessee. 545 pp.
- 954. Wharton, C. H. 1978. The natural environments of Georgia. Georgia Dept. of Natural Resources, Atlanta, Georgia.
- 955. Wharton, M. E. and R. W. Barbour. 1971. The wildflowers and ferns of Kentucky. Univ. of Kentucky Press, Lexington. 344 pp.
- 956. Wharton, M. E. and R. W. Barbour. 1973. Trees and shrubs of Kentucky. Univ. of Kentucky Press, Lexington. 582 pp.
- 957. Wheeler, P. R. 1952. Forest statistics for Tennessee. U. S. Dept. Agric., Forest Service. Southern For. Expt. Station, Forest Survey Release No. 70. 56 pp.
- 958. Wherry, E. T. 1930. Plants of the Appalachian shale barrens. Jour. Washington Acad. Sci. 20:43-52.
- 959. Wherry, E. T. 1977. East-west plant distribution in North America. Castanea 42:176-177.
- 960. Whigham, D. F. 1968. Vegetation patterns of the north slope of Bluff Mountain, Ashe County, North Carolina. M.S. Thesis, Univ. of North Carolina, Chapel Hill.

- 961. Whigham, D. F. 1969. Vegetation patterns on the north slopes of Bluff Mountain, Ashe County, North Carolina. Jour. Elisha Mitchell Sci. Soc. 85:1-15.
- 962. White, P. S. 1979. Pattern, process, and natural disturbance in vegetation. Botanical Review 45:229-299.
- 963. Whitehead, D. R. 1965. Palynology and Pleistocene phytogeography of unglaciated eastern North America. p. 417-432. In H. E. Wright, Jr., and D. G. Frey (eds.). The Quaternary of the United States. Princeton Univ. Press, Princeton, New Jersey. 922 pp.
- 964. Whitehead, D. R. 1967. Studies of full-glacial vegetation and climate in southeastern United States. p. 237-248. In E. J. Cushing and H. E. Wright, Jr. (eds.). Quaternary Paleoecology. Yale Univ. Press, New Haven, Connecticut.
- 965. Whitehead, D. R. and E. S. Barghoorn. 1962. Pollen analytical investigations of Pleistocene deposits from western North Carolina and South Carolina. Ecological Monographs 32:347-369.
- 966. Whitley, A. M. 1977. The effect of the southern pine beetle on stand composition. Independent Study, Biology Department, Maryville College. Maryville, Tennessee.
- 967. Whittaker, R. H. 1948. A vegetation analysis of the Great Smoky Mountains. Ph.D. Dissertation, Univ. of Illinois, Urbana. 478 pp.
- 968. Whittaker, R. H. 1951. A criticism of the plant association and climatic climax concepts. Northwest Science 25:17-31.
- 969. Whittaker, R. H. 1952. A study of summer foliage insect communities in the Great Smoky Mountains. Ecological Monographs 22:1-44.
- 970. Whittaker, R. H. 1956. Vegetation of the Great Smoky Mountains. Ecological Monographs 26:1-80.
- 971. Whittaker, R. H. 1961. Estimation of net primary production of forest and shrub communities. Ecology 42:177-180.
- 972. Whittaker, R. H. 1962. Net production relations of shrubs in the Great Smoky Mountains. Ecology 43:357-377.
- 973. Whittaker, R. H. 1963. Net production of heath balds and forest heaths in the Great Smoky Mountains. Ecology 44:176-182.
- 974. Whittaker, R. H. 1965. Branch dimensions and estimation of branch production. Ecology 46:365-370.

- 975. Whittaker, R. H. 1966. Forest dimensions and production in the Great Smoky Mountains. Ecology 47:103-121.
- 976. Whittaker, R. H., N. Cohen, and J. S. Olson. 1963. Net production relations of the three tree species at Oak Ridge, Tennessee. Ecology 44:806-810.
- 977. Whittaker, R. H. and V. Garfine. 1962. Leaf characteristics and cholorophyll in relation to exposure and production in Rhododendron maximum. Ecology 43:120-125.
- 978. Whittaker, R. H. and G. M. Woodwell. 1967. Surface area relations of woody plants and forest communities. American Jour. Botany 54:931-939.
- 979. Wilhelm, E. J., Jr. 1968. The Blue Ridge: Man, and Nature in the Shehandoah National Park and Blue Ridge Parkway. Univ. of Virginia Press, Charlottesville. 103 pp.
- 980. Wilhelm, G. 1972. Fire ecology in Shenandoah National Park. Proc. Tall Timbers Fire Ecol. Conf. 12:175-198.
- 981. Williams, R. H. and H. J. Oosting. 1944. The vegetation of Pilot Mountain, North Carolina: A community analysis. Bull. Torrey Botanical Club 71:23-45.
- 982. Williamson, M. J. 1964. Burning does not control young hardwoods in shortleaf pine sites in the Cumberland Plateau. U. S. Dept. Agric., Forest Service. Central States For. Expt. Station, Research Note No. CS-19. 4 pp.
- 983. Wingfield, C. 1968. The ecology of <u>Pieris floribunda</u> Benth. and Hook., an ericad in a pine-heath community in the Great Smoky Mountains. M.S. Thesis, Univ. of Tennessee, Knoxville. 68 pp.
- 984. Winstead, J. E. and K. A. Nicley. 1976. A preliminary study of a virgin tract of the Cumberland Plateau in Laurel County, Kentucky. Trans. Kentucky Acad. Sci. 37:29-32.
- 985. Witkamp, M., M. L. Frank, and J. L. Shoopman. 1966. Accumulation and biota in a pioneer ecosystem of Kudzu vine at Copperhill, Tennessee. Jour. Applied Ecology 3:383-391.
- 986. Wolfe, C. B. 1975. Some ecological factors influencing the distribution of <u>Betula nigra</u> L. in western North Carolina.

 M.S. Thesis, Western Carolina Univ., Cullowhee, North Carolina.
- 987. Wolfe, C. B. and J. D. Pittillo. 1977. Some ecological factors influencing the distribution of <u>Betula nigra</u> L. in western North Carolina. Castanea 42:18-30.
- 988. Wolfe. J. A. 1956. Vegetation studies in Hawkin County, Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 153 pp.

- 989. Wolfe, J. A. 1967. Forest soil characteristics as influenced by vegetation and bedrock in the spruce-fir zone of the Great Smoky Mountains. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 193 pp.
- 990. Wood, C. E., Jr. 1970. Some floristic relationships between the southern Appalachians and western North America. In P. C. Holt (ed.). The Distributional History of the Biota of the Southern Appalachians. Part II: Flora. Research Division Monograph 2. Virginia Polytechnic Institute and State Univ., Blacksburg, Virginia. 2:331-404.
- 991. Wood, O. M. 1939. Relation of the root system of a sprouting stump in <u>Quercus montana</u> Willd. to that of an undisturbed tree. Jour. Forestry 37:309-312.
- 992. Woodruff, N. H. 1935. Soil acidity at the roots of some Tennessee pteridophytes. Jour. Tenn. Acad. Sci. 10:276-290.
- 993. Woods, F. W. 1957. Natural replacement of chestnut by other species in the Great Smoky Mountains. Ph.D. Dissertation, Univ. of Tennessee, Knoxville. 50 pp.
- 994. Woods, F. W. and R. E. Shanks. 1957. Replacement of chestnut in the Great Smoky Mountains of Tennessee and North Carolina. Jour. Forestry 55:847.
- 995. Woods, F. W. and R. E. Shanks. 1959. Natural replacement of chestnut by other species in the Great Smoky Mountains National Park. Ecology 40:349-361.
- 996. Wyatt, R. and N. Fowler. 1977. The vascular flora and vegetation of the North Carolina granite outcrops. Bull. Torrey Botanical Club 104:245-253.
- 997. Yard, R. S. 1942. The Great Smoky wilderness. The Living Wilderness $\underline{7}$:7--19.
- 998. Yawney, H. W. 1964. Oak site index on Belmont limestone soils in the Allegheny Mountains of West Virginia. U. S. Dept. Agric., Forest Service. Northeastern For. Expt. Station, Forest Service Research Paper No. NE-30. 16 pp.
- 999. Yawney, H. W. and G. R. Trimble, Jr. 1968. Oak soil-site relationships in the Ridge and Valley Region of West Virginia and Maryland. U. S. Dept. Agric., Forest Service. Northeastern For. Expt. Station Research Paper No. NE-96. Upper Darby, Pennsylvania. 19 pp.
- 1000. Zobel, D. B. 1968. Factors influencing the distribution of Pinus pungens, an Appalachian endemic. Ph.D. Dissertation, Duke Univ., Durham, North Carolina.

- 1001. Zobel, D. B. 1969. Factors affecting the distribution of Pinus pungens, an Appalachian endemic. Ecological Monographs 39:303-333.
- 1002. Zon, R. 1904. Chestnut in southern Maryland. U. S. Dept. Agric., Bureau of Forestry, Bull. No. 53. 31 pp.
- 1003. Zon, R. 1907. Management of second growth in the southern Appalachians. U. S. Dept. Agric., Forest Service Circular No. 118. 22 pp.

SUPPLEMENT

- 2000. Abbott, D. J., and D. A. Crossley, Jr. 1982. Woody litter decomposition following clear-cutting. Ecology 63:35-42.
- 2001. Arends, E. 1981. Vegetation patterns a half century following the chestnut blight in the Great Smoky Mountains National Park.

 M.S. Thesis. Univ. of Tennessee, Knoxville. 79 pp.
- 2002. Barden, L. S. 1979. Tree replacement in small canopy gaps of a Tsuga canadensis forest in the Southern Appalachians, Tennessee. Oecologia 44:141-142.
- 2003. Barden, L. S. 1980. Tree replacement in a cove hardwood forest of the Southern Appalachians. Oikos 35:16-19.
- 2004. Barden, L. S. 1981. Forest development in canopy gaps of a diverse hardwood forest of the Southern Appalachian mountains. Oikos 37:205-209.
- 2005. Barry, J. M. 1980. Natural vegetation of South Carolina. University of South Carolina Press, Columbia. 214 pp.
- 2006. Boner, R. R. 1979. Effects of Fraser fir death on population dynamics in Southern Appalachian boreal ecosystems. M.S. Thesis. Univ. of Tennessee, Knoxville. 105 pp.
- 2007. Boring, L. R., C. D. Monk, and W. T. Swank. 1981. Early regeneration of a clear-cut Southern Appalachian forest. Ecology 62:1244-1258.
- 2008. Bratton, S. P. 1979. Impacts of white-tailed deer on the vegetation of Cades Cove, Great Smoky Mountains National Park. Proc. Annu. Conf. Southeast Assoc. Fish & Wildl. Agencies 33:305-312.
- 2009. Bratton, S. P., M. E. Harmon, and P. S. White. 1982. Rooting impacts of the European wild boar during a year of mast failure. Castanea.
- 2010. Bratton, S. P., R. C. Mathews, Jr., and P. S. White. 1980. Impacts of an agricultural area within a natural area: Cades Cove, a case history. Environ. Manage. 4:433-448.
- 2011. Bratton, S. P., L. L. Stromberg, and M. E. Harmon. 1982. Firewood-gathering impacts in backcountry campsites in Great Smoky Mountains National Park. Environ. Manage. 6:63-71.
- 2012. Bratton, S. P., and P. S. White. 1980. Grassy balds management in parks and nature preserves: issues and problems. Pages 96-114 in P. R. Saunders, ed. Status and management of Southern Appalachian mountain balds. SARRMC, Western Carolina Univ., Cullowhee, NC.

- 2013. Bratton, S. P., P. S. White, and M. E. Harmon. 1981. Disturbance and recovery of plant communities in Great Smoky Mountains National Park: successional dynamics and concepts of naturalness. Pages 42-79 in M. A. Hemstrom and J. F. Franklin, eds. Successional research and environmental pollutant monitoring associated with Biosphere Reserves. U.S. Natl. Committee for Man and the Biosphere, Washington, DC.
- 2014. Brush, G. S., C. Lenk, and J. Smith. 1980. The natural forests of Maryland: an explanation of the vegetation map of Maryland. Ecol. Monogr. 50:77-92.
- 2015. Cotrufo, C. 1977. Nutrient content in litter fall of an Appalachian hardwood stand. J. Elisha Mitchell Sci. Soc. 104:27-33.
- 2016. Della-Bianca, L. 1978. Characteristics, habitat, and fruiting of wild grapevines in the Southern Appalachians. J. Elisha Mitchell Sci. Soc. 94:21-26.
- 2017. Delcourt, H. R. 1979. Late Quaternary vegetation history of the eastern highland rim and adjacent Cumberland Plateau of Tennessee. Sci. Soc. 94:21-26.
- 2018. Delcourt, H. R., and W. F. Harris. 1980. Carbon budget of the Southeastern U.S. biota: analysis of historical change in trend from source to sink. Science 210:321-323.
- 2019. Delcourt, H. R., D. C. West, and P. A. Delcourt. 1981. Forests of the Southeastern United States: quantitative maps for above-ground woody biomass, carbon, and dominance of major tree taxa. Ecology 62:879-887.
- 2020. Delcourt, P. A., and H. R. Delcourt. 1979. Late Pleistocene and Holocene distributional history of the deciduous forest in the Southeastern United States. Veröff. Geobot. Inst. ETH., Stiftung Rübel, Zürich 68:79-107.
- 2021. Dickey, S. S. 1926. The Table Mountain pine. Nature Mag. 8:38.
- 2022. Evans, M., P. S. White, and C. Pyle. 1981. Southern Appalachian pteridophytes: an indexed bibliography, 1833-1980. National Park Service, Southeast Region, Res./Resour. Manage. Rep. 49. 23 pp.
- 2023. Fountain, M. S. 1980. Relating understory vegetation to site quality in north-central West Virginia. Castanea 45:1-8.
- 2024. Gaylon, W. L. 1927. Trees and shrubs of east Tennessee. M.S. Thesis, Univ. of Tennessee, Knoxville. 75 pp.

- 2025. Golden, M. S. 1981. An integrated multivariate analysis of forest communities of the central Great Smoky Mountains. Am. Midl. Nat. 106:37-53.
- 2026. Hardin, E. D., and K. P. Lewis. 1980. Vegetation analysis of Bee Branch Gorge, a hemlock-beech community on the Warrior River Basin of Alabama. Castanea 45:248-256.
- 2027. Harmon, M. E. 1980. The influence of fire and site factors on vegetation pattern and process: a case study of the western portion of Great Smoky Mountains National Park. M.S. Thesis. Univ. of Tennessee, Knoxville. 170 pp.
- 2028. Harmon, M. E. 1980. The distribution and dynamics of forest fuels in the low elevation forests of Great Smoky Mountains National Park. National Park Service, Southeast Regional Office Res./Resour. Manage. Rep. 32. 86 pp.
- 2029. Harmon, M. E. 1981. Fire history of Great Smoky Mountains National Park--1940 to 1979. National Park Service, Southeast Regional Office Res./Resour. Manage. Rep. 46. 39 pp.
- 2030. Harmon, M. E. 1982. The fire history of the westernmost portion of Great Smoky Mountains National Park. Bull. Torrey Bot. Club 109:74-79.
- 2031. Harmon, M. E. 1982. Decomposition of standing dead trees in the Southern Appalachian mountains. Oecologia 52:214-215.
- 2032. Harmon, M. E., T. Hennessy, and D. G. Silsbee. 1980. Woody fuel dimensions within Great Smoky Mountains National Park. National Park Service, Southeast Regional Office Res./Resour. Manage. Rep. 31. 28 pp.
- 2033. Hicks, D. J. 1980. Intrastand distribution patterns of southern Appalachian cove forest herbaceous species. Am. Midl. Nat. 104:209-223
- 2034. Hooper, R. G., H. S. Crawford, and R. F. Harlow. 1973. Bird density and diversity as related to vegetation in forest recreational areas. J. For. 71:766-769.
- 2035. Horn, J. C. 1980. Short-term changes in vegetation after clear-cutting in the southern Appalachians. Castanea 45:88-96.
- 2036. Horton, J. H., and L. H. Gaines. 1981. Floristics of selected heath communities along the southern section of the Blue Ridge Parkway. National Park Service, Southeast Regional Office Res./Resour. Manage. Rep. 45.
- 2037. Hutchinson, B. A., and D. R. Matt. 1977. The distribution of solar radiation within a deciduous forest. Ecol. Monogr. 47:185-207.

- 2038. Lindsay, M. M., and S. P. Bratton. 1979. The vegetation of grassy balds and other high elevation disturbed areas in the Great Smoky Mountains National Park. Bull. Torrey Bot. Club 106: 264-275.
- 2039. Lindsay, M., and S. P. Bratton. 1980. The rate of woody plant invasion on two grassy balds. Castanea 45:75-87.
- 2040. Livingston, D., and C. Mitchell. 1976. Site classification and mapping in the Mt. LeConte growth district, Great Smoky Mountains National Park. Unpubl. rep., Library, Great Smoky Mountains National Park. 68 pp.
- 2041. Lorimer, C. G. 1980. Age structure and disturbance history of a southern Appalachian virgin forest. Ecology 61:1169-1184.
- 2042. McCormick, J. F., and R. B. Platt. 1980. Recovery of an Appalachian forest following the chestnut blight or Catherine Keever You were right! Am. Midl. Nat. 104:264-273.
- 2043. McEvoy, T. J., T. L. Shank, and D. W. Smith. 1980. Vegetative structure of an Appalachian oak forest in southwestern Virginia. Am. Midl. Nat. 103:96-105.
- 2044. McGee, C. E. 1974. Elevation of seed resources and planting sites effects phenology and development of red oak seedlings. For. Sci. 20:160-164.
- 2045. Medley, M. E., and B. E. Wofford. 1980. Thuja occidentalis L. and other noteworthy collections from the Big South Fork of the Cumberland River in McCreary County, Kentucky. Castanea 45: 213-214.
- 2046. Monk, C. D. 1981. Age structure of <u>Carya tomentosa</u> (Poir.) Nutt. in a young oak forest. Am. Midl. Nat. 106:189-191.
- 2047. Ogle, D. W. 1980. An unusual locality for rare plants in southwestern Virginia. Castanea 45:243-247.
- 2048. Orndorff, K. A., and G. E. Lang. 1981. Leaf litter redistribution in a West Virginia hardwood forest. J. Ecol. 69:225-236.
- 2049. Patric, J. H. 1980. Some environmental effects of cable logging in Appalachian forests. USDA Forest Service, Gen. Tech. Rep. No. NE-55. 29 pp.
- 2050. Pavlovic, N. B. 1981. An examination of the seed rain and seed bank for evidence of seed exchange between a beech gap and a spruce forest in the Great Smoky Mountains. M.S. Thesis. Univ. of Tennessee, Knoxville.
- 2051. Peterson, K. M. 1980. Natural origin and maintenance of Southern Appalachian balds: a review of hypotheses. Pages 7-17 in P. R. Saunders, ed. Status and management of Southern Appalachian mountain balds. SARRMC, Western Carolina Univ., Cullowhee, NC.

- 2052. Phillips, D. L. 1981. Succession in granite rock outcrop shrub-tree communities. Am. Midl. Nat. 106:313-317.
- 2053. Phillips, D. L. 1982. Life forms of granite outcrop plants. Am. Midl. Nat. 107:206-208.
- 2054. Pielke, R. A. 1981. The distribution of spruce in west-central Virginia before logging. Castanea 46:201-216.
- 2055. Pittillo, J. D. 1980. Status and dynamics of balds in Southern Appalachian mountains. Pages 39=51 in P. R. Saunders, ed. Status and management of Southern Appalachian mountain balds. SARRMC, Western Carolina Univ., Cullowhee, NC.
- 2056. Rheinhardt, R. D. 1981. Vegetation of the Balsam Mountains of Southwest Virginia. M.S. Thesis. College of William and Mary, Williamsburg, VA.
- 2057. Runkle, J. R. 1981. Gap regeneration in some old-growth forests of the eastern United States. Ecology 62:1041-1051.
- 2058. Sain, R. E., and K. E. Blum. 1981. Seedling production in the highelevation beech (<u>Fagus grandifolia Ehrh.</u>) forests of the Great Smoky Mountains National Park. Castanea 46:217-224.
- 2059. Santee, W. R., and C. D. Monk. 1981. Stem diameter and dry weight relationships in <u>Tsuga canadensis</u> (L.) Carr. Bull. Torrey Bot. Club 108:320-323.
- 2060. Saunders, P. R., ed. 1980. Status and management of Southern
 Appalachian mountain balds. Proc. So. Appalachia Res./Resour.
 Manage. Coop. Workshop, Nov. 5-7, 1980, Corpening Training Center,
 Crossnore, NC. 124 pp.
- 2061. Schell, E. 1980. The floral values of Southern Appalachian balds. Pages 66-73 in P. R. Saunders, ed. Status and management of Southern Appalachian mountain balds. SARRMC, Western Carolina Univ., Cullowhee, NC.
- 2062. Skallerup, H. R. 1953. The distribution of <u>Diospyros virginiana</u> L. Ann. Missouri Bot. Gardens <u>40</u>:211-225.
- 2063. Smathers, G. S. 1979. Craggy Gardens rhododendron study. USDI,
 National Park Service, in coop. with Western Carolina Univ.,
 Res./Resour. Manage. Info. Bull. No. 4. 5 pp.
- 2064. Smathers, G. S. 1980. Oak orchards in the southern Appalachians.
 USDI, National Park Service in coop. with Western Carolina Univ.,
 Res./Resour. Manage. Info. Bull. No. 5. 5 pp.

- 20:65. Smathers, G. A. 1980. The anthropic factor in Southern Appalachian bald formation. Pages 18-38 in P. R. Saunders, ed. Status and management of Southern Appalachian mountain balds. SARRMC, Western Carolina Univ., Cullowhee, NC.
- 2066. Stratton, D. A., and P. S. White. 1982. Grassy balds of Great Smoky Mountains National Park: vascular plant floristics, rare plant distribution, and an assessment of the floristic data base.

 National Park Service, Southeast Regional Office Res./Resour.

 Manage. Rep. Series.
- 2067. Stratton, D. A., and P. S. White. 1982. Heath balds of the Great Smoky Mountains: flora, distribution, and ecology. National Park Service, Southeast Regional Office Res./Resour. Manage. Rep. Series.
- 2068. Swank, W. T., J. B. Wade, D. A. Crossley, Jr., and R. L. Todd. 1981.

 Insect defoliation enhances nitrate export from forest ecosystems.

 Oecologia 51:297-299.
- 2069. Watts, W. A. 1979. Late Quaternary vegetation of central Appalachia and the New Jersey coastal plain. Ecol. Monogr. 49:427-469.
- 2070. Webster, J. R., and B. C. Patten. 1979. Effects of watershed perturbation on stream potassium and calcium dynamics. Ecol. Monogr. 49:51-72.
- 2071. Wieder, R. K., A. M. McCormick, and G. E. Lang. 1981. Vegetation analysis of Big Run Bog, a nonglaciated Sphagnum bog in West Virginia. Castanea 46:16-29.
- 2072. Wentworth, T. R. 1980. Preliminary analysis of vegetation in the Thompson River watershed, North and South Carolina. Pages 145-161

 in H. Leith and E. Landott, eds. Contributions to the knowledge of flora and vegetation in the Carolinas, vol. 2. Veröff. Geobot. Institut ETH, Stiftung Rübel, Zürich.
- 2073. White, P. S. 1982. New and noteworthy plants from Great Smoky Mountains National Park, North Carolina and Tennessee. Castanea 47:78-83.
- 2074. White, P. S. 1982. The flora of Great Smoky Mountains National Park: an annotated checklist of the vascular plants and a review of previous floristic work. National Park Service, Southeast Regional Office, Res./Resour. Manage. Rep. SER-55. 219 pp.
- 2075. Whitehead, D. R. 1981. Late-Pleistocene vegetational changes in northeastern North Carolina. Ecol. Monogr. 51:451-471.
- 2076. Wofford, B. E., and P. S. White. 1981. Phanerogams of the southern Appalachians: an indexed bibliography of systematics and identification. National Park Service, Southeast Regional Office, Res./Resour. Manage. Rep. 53. 69 pp.
- 2077. Zander, R. H. 1980. Spread of <u>Leptodontium viticulosoides</u> (Bryopsida) after Balsam Woolly Aphid infestation of Fraser fir. Bull. Torrey Bot. Club <u>107</u>:7-8.

INDEX: Southern Appalachian Vegetation

Aerial photography and remote sensing--interpretation: 35, 177, 252, 256, 522, 523

Air quality impacts: 13, 67, 72, 283, 531, 661, 739, 765, 893, 896, 900

Allelopathy: 293, 334, 335, 336, 908

Alluvial forests (see also Vegetation pattern--general): 987

Aquatic plant communities (see also Bogs, Wetlands): 903

Autecology (including life history, population studies, silvics; see also Site index, Seed dispersal, Seedling establishment, Regeneration, Forestry practice): 45, 50, 52, 73, 91, 148, 150, 152, 300, 302, 316, 366, 368, 420, 452, 486, 548, 573, 575, 606, 613, 646, 689, 699, 731, 832, 841, 843, 849, 904, 983, 986, 987, 991, 1000, 1001, 2016, 2021, 2044, 2046, 2050, 2059

Balds (see also Grassy balds, Heath balds, Vegetation pattern--general): 68, 79, 174, 205, 335, 340, 342, 2012, 2036, 2051, 2056, 2060, 2061, 2063, 2065

Balsam woolly aphid (see also Spruce-fir): 6, 15, 279, 289, 404, 472, 848, 2006, 2077

Barrens: See Shale barrens, Cedar barrens

Beech gaps (see also Northern hardwoods, Vegetation pattern--general): 94, 329, 445, 613, 659, 767, 2050, 2058

Bibliographies: 282, 328, 385, 403, 603, 643, 684, 775, 860, 915, 2022, 2076

Bird species (see also Wildlife): 18, 435, 657, 714, 858, 863, 2034

Bogs (see also Wetlands): 24, 47, 209, 232, 253, 280, 349, 355, 638, 737, 861, 2071

Browsing: See Grazing and browsing

Bryophytes: 10, 16, 17, 20, 40, 76, 78, 154, 169, 218, 219, 220, 221, 227, 350, 355, 422, 490, 581, 655, 656, 667, 674, 683, 696, 803, 805, 861, 2077

Cedar barrens: 257

Checklists (including floristics; see also Plant geography, Woody plants): 8, 9, 11, 16, 17, 19, 20, 28, 46, 87, 103, 107, 110, 112, 113, 114, 116, 117, 135, 157, 161, 180, 183, 185, 188, 192, 197, 198, 200, 201, 203, 204, 207, 209, 210, 211, 214, 229, 230, 235, 239, 273, 274, 275, 288, 291, 296, 297, 298, 299, 300, 304, 305, 306, 307, 309, 311, 312,

- Checklists (cont.) 313, 314, 330, 333, 341, 347, 348, 349, 352, 356, 364, 371, 380, 386, 388, 389, 409, 419, 423, 428, 429, 430, 436, 446, 458, 459, 460, 461, 469, 470, 471, 473, 478, 480, 481, 482, 483, 484, 537, 546, 549, 572, 576, 577, 578, 587, 589, 604, 607, 610, 612, 617, 618, 621, 622, 664, 676, 677, 680, 681, 682, 685, 692, 693, 695, 697, 712, 719, 720, 721, 722, 724, 725, 728, 729, 734, 744, 749, 751, 752, 754, 755, 756, 757, 758, 768, 785, 789, 790, 793, 794, 796, 814, 833, 834, 835, 836, 889, 890, 899, 909, 910, 924, 931, 939, 955, 2073, 2074
- Chestnut and chestnut blight (see also Vegetation pattern--general): 29, 55, 65, 123, 130, 139, 140, 178, 179, 212, 293, 322, 361, 362, 363, 433, 455, 479, 488, 512, 513, 517, 518, 560, 561, 562, 582, 647, 649, 770, 771, 823, 853, 859, 949, 993, 994, 995, 1002, 2001, 2042
- Climate (including microclimate; see also Environmental factors): 85, 262, 264, 413, 421, 448, 449, 457, 519, 520, 539, 564, 565, 628, 634, 672, 791, 838, 852, 877
- Coastal Plains species in the mountains (see also Plant geography): 104, 166, 167
- Cove hardwoods (see also Hemlock, Vegetation pattern--general): 2, 93, 95, 96, 97, 109, 133, 151, 155, 225, 367, 420, 489, 551, 598, 713, 766, 777, 778, 829, 830, 831, 925, 928, 2002, 2003, 2004, 2033
- Deer (see also Grazing and browsing, Mammals, Wildlife): 99, 248, 250, 269, 387, 863, 2008
- Diversity (see also Vegetation pattern--general): 93, 95, 96, 97, 303, 354, 420, 588, 590, 635, 831, 2033
- Ecosystem studies (including nutrient budgets, production studies, energetics): 7, 212, 228, 241, 243, 244, 474, 501, 519, 585, 636, 662, 764, 774, 781, 797, 799, 812, 813, 822, 827, 829, 830, 845, 846, 847, 871, 872, 891, 934, 935, 971, 972, 973, 974, 975, 976, 977, 978, 2000, 2015, 2031, 2048, 2068, 2070
- Environmental impact statements: 59
- Environmental factors (see also Climate): 315, 439, 661, 745, 759, 795, 798, 873, 874, 875, 876, 892, 2037
- Ethnobotany: 44, 704
- European wild boar: 69, 70, 92, 94, 95, 98, 414, 443, 445, 784, 851, 863, 2009
- Exotic plants: 58, 678
- Fire: 48, 51, 52, 53, 54, 63, 71, 164, 254, 338, 415, 431, 437, 463, 464, 467, 486, 510, 564, 565, 566, 567, 653, 761, 815, 828, 896, 980, 982, 2027, 2028, 2029, 2030, 2032
- Forest history (including early descriptions of forests, logging, etc.): 21, 26, 27, 28, 29, 32, 37, 38, 39, 41, 128, 133, 134, 164, 245, 294, 295, 353, 377, 378, 379, 432, 438, 491, 493, 494, 498, 503, 514, 515, 529, 530, 571, 688, 701, 702, 703, 705, 706, 707, 735, 762, 815, 867, 868, 953

```
Forest surveys: 64, 131, 213, 215, 226, 271, 286, 408, 553, 554, 558, 568, 569, 605, 644, 650, 658, 740, 741, 788, 844, 881, 882, 883, 884, 885, 886, 887, 888, 914, 957
```

Forestry practice (including studies of logging effects, tree growth): 2, 13, 14, 34, 60, 61, 62, 72, 136, 137, 175, 182, 248, 249, 250, 251, 286, 292, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 373, 374, 375, 406, 463, 464, 465, 466, 467, 504, 505, 511, 516, 526, 532, 533, 550, 571, 595, 608, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 645, 648, 665, 687, 705, 731, 747, 763, 780, 781, 837, 840, 854, 855, 856, 864, 870, 893, 904, 905, 906, 907, 920, 926, 927, 936, 937, 948, 982, 1003, 2000, 2007, 2037, 2049

Fraser fir: See Spruce-fir

Geology (including geomorphology; see also Outcrops): 376, 491, 912

Gorge vegetation: 160, 161, 162, 163, 180, 188, 190, 273, 274, 423, 501, 555, 639, 640, 641, 642, 709, 738, 750, 751, 818, 819, 2026, 2072

Grassy balds (see also Balds, Vegetation pattern--general): 51, 68, 79, 124, 125, 126, 129, 156, 340, 342, 343, 344, 345, 346, 351, 468, 492, 521, 540, 541, 542, 543, 557, 559, 591, 592, 593, 615, 727, 940, 941, 942, 943, 944, 945, 946, 2012, 2038, 2039, 2066

Grazing and browsing (see also Deer, European wild boar, Mammals, Grassy balds, Wildlife): 81, 374, 387

Great Smoky Mountains National Park: 45, 48, 53, 58, 59, 67, 69, 70, 84, 85, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 129, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 156, 187, 218, 219, 220, 221, 238, 246, 259, 260, 261, 279, 303, 329, 331, 335, 342, 343, 344, 345, 346, 357, 365, 420, 421, 428, 429, 430, 443, 445, 469, 470, 471, 472, 475, 492, 506, 528, 529, 530, 540, 541, 542, 543, 544, 557, 559, 570, 571, 580, 583, 591, 592, 593, 603, 616, 619, 637, 654, 659, 669, 682, 700, 727, 728, 729, 730, 739, 766, 767, 776, 779, 784, 791, 804, 809, 810, 814, 865, 866, 916, 917, 928, 967, 969, 970, 971, 972, 973, 974, 975, 993, 994, 995, 997, 2001, 2002, 2003, 2004, 2006, 2008, 2009, 2011, 2012, 2013, 2025, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2038, 2039, 2440, 2050, 2057, 2066, 2067, 2073, 2074

Heath balds (see also Balds, Vegetation pattern--general): 144, 335, 2069

Hemlock (cove hardwoods, gorge vegetation; see also Vegetation pattern-general): 74, 86, 233, 310, 316, 360, 391, 394, 416, 435, 461, 501, 502, 594, 651, 668, 670, 671, 683, 774, 787, 2002, 2026, 2059

Human disturbance--miscellaneous: 13, 231, 739

Hydrology: 580, 703

Land use planning: 5

Lichens: 246, 259, 260, 637, 686

Mammals (see also Deer, European wild boar, Grazing and browsing, Grassy balds, Wildlife): 56, 57, 81, 99, 344, 374, 387, 863

Modelling: 822, 823, 824, 845, 847

Monitoring: 67, 475

Native Americans: 372, 499, 615

Natural area surveys, listings: 88, 253, 287, 412, 497, 690, 691, 922, 923

Natural disturbance (see also Fire, Southern pine beetle): 1, 30, 42, 84, 85, 90, 133, 138, 159, 173, 267, 278, 448, 450, 476, 534, 539, 551, 620, 634, 648, 766, 841, 962, 2002, 2003, 2004, 2013, 2041, 2057

Northern hardwoods (see also Beech gaps, Vegetation pattern--general): 94, 317, 329, 405, 613, 652, 659, 767, 779, 934, 935

Oak (see also Chestnut, Pine, Vegetation pattern--general): 45, 56, 57, 60, 90, 172, 247, 265, 266, 269, 270, 300, 366, 452, 479, 526, 582, 599, 606, 660, 731, 764, 772, 827, 863, 892, 904, 907, 922, 923, 936, 991, 998, 999, 2043, 2044, 2046, 2064

Oak-Pine: See Oak and Pine as separate categories

Outcrops (see also Cedar barrens, Shale barrens): 10, 23, 487, 490, 581, 666, 667, 674, 718, 720, 721, 996, 2052, 2053

Paleoecology: 4, 47, 68, 216, 217, 675, 932, 933, 963, 964, 965, 2017, 2020, 2069, 2075

Phenology: 721, 732, 733, 878, 879, 880

Physiology (see also Autecology): 418, 736

Pine (see also Fire, Oak, Southern Pine Beetle, Vegetation pattern--general, White pine blister rust): 42, 43, 48, 49, 50, 52, 53, 54, 61, 72, 75, 136, 138, 193, 227, 261, 267, 268, 280, 283, 285, 438, 463, 505, 528, 531, 548, 585, 645, 665, 672, 679, 716, 731, 763, 781, 827, 832, 856, 893, 896, 897, 900, 922, 923, 937, 983, 1000, 1001, 2021

Plant geography (see also Checklists): 3, 4, 16, 17, 36, 82, 89, 104, 105, 120, 121, 122, 132, 143, 151, 152, 158, 166, 167, 168, 190, 195, 199, 206, 208, 209, 272, 281, 290, 359, 370, 384, 389, 390, 391, 392, 393, 394, 396, 397, 398, 399, 400, 401, 402, 444, 451, 478, 483, 484, 485, 527, 535, 547, 638, 694, 710, 786, 805, 806, 808, 811, 857, 902, 959, 990, 2024, 2045, 2047, 2062, 2072, 2073, 2074

Recreational impacts: 100, 101, 555, 654, 776, 2012

Regeneration (see also Autecology, Seedling establishment): 60, 91, 172, 268, 360, 368, 450, 452, 486, 606, 632, 633, 672, 699, 717, 718, 772, 773, 895, 905, 948

Rhododendron: 251, 277, 437, 456, 492, 575, 760, 761, 765, 843

Seed dispersal: 73, 170, 901

Seedling establishment (see also Autecology, Regeneration): 284, 368, 2050, 2058

Seed predation: 56, 57, 269, 270

Shale barrens: 10, 23, 202, 208, 485, 696, 958

Site index (including site quality, site factors; see also Autecology, Forestry practice): 34, 66, 265, 266, 454, 660, 753, 907, 998, 999, 2023

Soil-vegetation relations (see also Ecosystem studies, Vegetation patterns-general): 34, 68, 75, 83, 141, 146, 410, 411, 417, 449, 453, 454, 457, 552, 570, 574, 579, 596, 597, 795, 869, 892, 918, 919, 929, 989, 992

Southern pine beetle (see also Pine): 42, 177, 263, 426, 528, 966

Spruce: See Spruce-fir

Spruce-fir (see also Balsam woolly aphid, Vegetation pattern--general): 6, 12, 147, 174, 182, 194, 218, 219, 220, 221, 258, 272, 279, 289, 321, 329, 330, 368, 427, 438, 462, 514, 515, 623, 624, 626, 629, 630, 646, 655, 669, 702, 714, 730, 744, 746, 759, 765, 776, 779, 783, 820, 894, 926, 930, 934, 952, 989, 2006, 2050, 2054, 2077

Succession (see also Fire, Natural disturbance, Vegetation pattern--general): 7, 13, 75, 125, 129, 164, 223, 278, 321, 326, 329, 334, 336, 367, 415, 487, 490, 519, 521, 528, 585, 663, 679, 700, 730, 826, 839, 840, 841, 849, 869, 898, 925, 985, 2007, 2013, 2027, 2035, 2052, 2053

Vascular epiphytes: 809, 810

Vegetation pattern--general (see also Forest surveys, Balds, Barrens, Beech gaps, Bogs, Cedar barrens, Checklists, Chestnut, Cove hardwoods, Diversity, Forest History, Gorges, Grassy balds, Heath balds, Hemlock, Northern hardwoods, Oaks, Outcrops, Pine, Plant geography, Shale barrens, Soil-vegetation relations, Spruce fir, Succession, Virgin forests, Wetlands): 5, 11, 12, 32, 47, 89, 95, 96, 97, 102, 106, 108, 109, 111, 115, 118, 119, 124, 125, 141, 142, 145, 155, 171, 174, 176, 187, 188, 189, 190, 222, 224, 225, 228, 234, 236, 237, 238, 240, 242, 247, 255, 273, 308, 357, 358, 367, 369, 373, 376, 381, 395, 396, 397, 405, 407, 424, 425, 441, 447, 449, 452, 457, 468, 489, 495, 496, 500, 501, 507, 508, 509, 524, 525, 536, 537, 538, 545, 551, 552, 555, 563, 571, 573, 586, 588, 589, 590, 595, 596, 597, 598, 599, 600, 614, 619, 639, 640, 641, 642, 673, 694, 698, 715, 716, 719, 723, 748, 769, 777, 778, 779,

Vegetation pattern--general (cont.) 792, 802, 816, 817, 818, 819, 821, 825, 830, 842, 844, 850, 869, 889, 911, 921, 928, 938, 950, 951, 954, 960, 961, 967, 968, 970, 979, 981, 988, 2005, 2014, 2016, 2018, 2019, 2025, 2027, 2033, 2040, 2041, 2043, 2056

Virgin forests (see also Forest history, Vegetation pattern--general): 74, 155, 339, 367, 476, 551, 598, 620, 668, 669, 670, 683, 713, 738, 984, 2041, 2057

Wetlands (see also Bogs): 104, 166, 167, 742, 842, 947

White pine blister rust (see also Pine): 43, 196, 913

Wildlife: 269

Woody plants (including identification checklists, floristics; see also Checklists): 22, 25, 31, 33, 77, 80, 127, 158, 163, 165, 181, 184, 186, 191, 258, 276, 277, 332, 337, 348, 380, 382, 383, 434, 440, 442, 477, 547, 577, 578, 583, 584, 601, 602, 609, 611, 708, 711, 789, 790, 793, 794, 800, 801, 865, 866, 894, 930, 956, 2024

APPENDIX I

CROSS-REFERENCE CODING INSTRUCTIONS, VEGETATION BIBLIOGRAPHY

(Developed by C. Pyle, P. White, and H. De Young, Uplands Field Research Laboratory)

The system involves the coding of references on a form with space for one reference per sheet. This allows the references to be manually sorted (e.g., put in alphabetical order by the author's last name) prior to the entry into a computerized retrieval system. To simplify the transfer of data to the computer, the forms have been constructed with boxes in a computer-card format.

Individual references within the vegetation bibliography were alphabetized and then numbered consecutively. This number is used to identify each reference. In addition to the identification number, the location of the reference, the form of the material, the type/topic of reference, and a general cross-referencing format appears on each form. At the top of each form are 80 boxes which correspond to the 80 columns one may use in FORTRAN computer coding. They are filled in as follows:

BOX

- 1-2 Code number of GROUP being referenced.
- 3-6 Identification number of reference.

 Begin with 0001 for the first reference of each GROUP and number the references consecutively after they have been alphabetized.
- 7 Enter a 1 in this box if the reference was not seen.
- 8 LOCATION OF REFERENCE.
 Code with priority for GRSM Library.
 Code as follows:
 - A GRSM Library shelf
 - B GRSM vertical files
 - C GRSM archives
 - D GRSM Uplands Field Research Lab. or Researcher/Collector file
 - E GRSM Investigator's Annual Reports file
 - F University of Tennessee, Knoxville Library System
 - G Tennessee Valley Authority Library (Norris, TN)
 - H Interlibrary loan
 - I Author's personal copy

- 9 FORM OF MATERIAL Code as follows:
 - A Book
 - B Journal article (includes notes, etc., published in a journal)
 - C Popular article
 - D Master's thesis unpublished
 - E Doctoral dissertation unpublished
 - F Uplands Management Report/Report for the Superintendent
 - G Uplands unpublished reports
 - H Other published sources: pamphlets, etc.
 - I Unpublished manuscripts, personal journals, notes, etc.
 - J Correspondence on file at GRSM
 - K Annual report
 - L Map
 - M Photograph
 - N Tape recording

10-11 TYPE/TOPIC OF REFERENCE

There is space for entering two. Not necessarily alphabetically left justified - for the computer scan, request individual code from either box 10 or 11. Code as follows:

- A Popular guide
- B Standard type taxonomic manual
- C Checklist
- D Distribution notes including references to collections made in GRSM
- E Key
- F Systamtics evolutionary relationships: includes monographs and detailed papers on morphology and anatomy.
- G Autecology life history, physiology, and breeding
- H Community ecology includes information on species diversity, reproduction, community dynamics, disturbance, succession, individual species community composition, and patterns across the landscape
- I Ecosystem studies includes energetics, nutrient cycling, and productivity
- J Management Reports/concerns
- K Floristic or fanustic relationship between geographic areas or geologic time periods - including papers on the fossil record
- L Other

- 12 Put a 1 in this box if the Great Smoky Mountains National Park is specifically mentioned.
- GEOGRAPHICAL AREA COVERED BY MATERIAL
 Give priority to the specific location if it is 1-5.
 Codes as follows:
 - 1 Great Smoky Mountains National Park only
 - 2 Great Smoky Mountains
 - 3 Tennessee
 - 4 North Carolina
 - 5 Tennessee/North Carolina
 - Southern Appalachian Mountains (1) Includes as a whole the following areas: Unakas, Great Smoky Mountains, Blue Ridge, Blue Ridge escarpment, Black Mountains, Grandfather Mt., Natahala Mountains and the Unicois, or (2) the general area bounded by the conterminous mountainous portions of the following states: northeastern Alabama, northern Georgia, northwestern South Carolina, western North Carolina, eastern Kentucky, western West Virginia, eastern Tennessee, western Virginia, and southeastern Maryland.
 - 7 Southeastern United States or "southern" Includes area east of Mississippi River and south of Pennsylvania, Ohio, Indiana, and Illinois. Also includes "Southern Appalachians" papers with this geography rather than that outlined under 6 (Southern Appalachian Mountains).
 - 8 Eastern North America Includes papers with Eastern North America in the title; papers on "Appalachians" or "Southern Appalachians" not included in the geography outlined under 6 or 7 above; general area east of the Mississippi River.
 - 9 Other
 - 0 General
- 14 PATTERN
 - 1 = Material has reference to the pattern of distribution of vegetation
 on the landscape.
- 15 SITE CHARACTERISTICS
 - 1 = Material relates vegetation (pattern, growth, species frequency...)
 to site characteristics.
- 16 SUCCESSION
 - 1 = Material relates to changes in vegetative composition of a site over time.
- 17 FORESTRY
 - 1 = Material relates to people's manipulation (especially of the growth, reproduction, and maintenance) of a stand.

- 18 GROWTH, REPRODUCTION, AND MAINTENANCE
 - 1 = Material relates with the framework of "natural events," i.e.-not presently being manipulated.
- 19 HUMAN-RELATED DISTURBANCE
 - 1 = General
 - 2 = Exotics (animal, plant, disease)
 - 3 = Campsites, trails
 - 4 = Roads, buildings
 - 5 = Logging
 - 6 = Farming/Livestock
 - 7 = Digging/Gathering
 - 8 = Indian
 - 9 = Fire
 - 0 = Other

20 NATURAL DISTURBANCE

- 1 = General
- 2 = Native animals
- 3 = Wind
- 4 = Fire
- 5 = Slides
- 6 = Flooding
- 7 = Native insects/diseases
- 8 = Allelopathy
- 9 = Other

21 SPECIES DIVERSITY

- 1 = Material goes into detail on what factors influence the number of plant species in a set of communities or plots.
- 22 NUTRIENT AND BIOGEOCHEMICAL CYCLING
 - 1 = In a plant or plant ecosystem. Includes material related to vegetation
 on the rate of water flow through an ecosystem.
- 23 ENERGETICS/PRODUCTIVITY
 - 1 = Material on energetics (flow of energy in plants and ecosystems; that
 is, where biomass goes--e.g., flowers, leaves, or trees; herbs; also,
 efficiency of conversion of energy from one form to another) and/or
 material on productivity (rate of making biomass or gathering together
 energy and nutrients).
- 24 SEASONALITY
 - 1 = Material makes comparisons or statements about vegetation as relates
 to change of seasons.
- 25- VEGETATION TYPE
- If a particular reference relates the GROUP being referenced in an important way to a major vegetation type, enter a l in the appropriate box.

25-34 VEGETATION TYPE (cont.)

- 25 Spruce-fir
- Northern hardwoods includes Beech, Maple, Buckeye, and Beech gaps
- 27 Cove hardwoods includes "mesic hardwoods"
- 28 Hemlock
- 29 Oak includes Oak Chestnut, Oak, mixed Oak, etc.
- 30 Pine
- 31 Heath bald
- 32 Grassy bald
- 33 Aquatic bog or swamp forests
- 34 Other

Code as follows:

- 1 = Additional vegetation types mentioned
- 2 Understory information only
- 3 Additional vegetation types with understory information mentioned
- 4 Herbaceous and fern information only
- 5 Additional vegetation types, understory information, and herbaceous and fern information

35-54 ANIMALS

If a particular reference relates the GROUP being referenced to animals in terms of nontrivial ecological or systematic relationships of an individual species or group of animals, enter a 1 in the appropriate box.

- Mammals (general) Do not use if a more specific box can be found. Do use, however, if the cross-referencing is in general terms or to indicate that the specific reference material is within an overall reference dealing with mammals.
 - 36 Hoofed animals (general)
 - 37 White-tailed deer
 - 38 European wild boar
 - 39 Carnivores (general) includes bears (general), bobcats, fishers, foxes, mink, mountain lion, otters, raccoons, skunks, weasels, etc.
 - 40 Black bear

35-54 ANIMALS (cont.)

- 41 Rodents includes beavers, chipmunks, groundhogs (woodchucks), mice, muskrats, rats, squirrels, voles, etc.
- 42 Birds
- 43 Salmonid fish
- 44 Other fish
- 45 Reptiles and Amphibians (general) Do not use if a more specific cross-reference can be found. Do use, however, if the cross-referencing is in general terms or to indicate that the specific reference material is within an over-all reference dealing with Reptiles and/or Amphibians.
 - 46 Salamanders
 - 47 Frogs
 - 48 Snakes
 - 49 Turtles
 - 50 Lizards
- 51 Aquatic invertebrates (general)
- 52 Terrestrial invertebrates (general)
- 53 Arachnids include spiders and mites
- 54 Insects

55-64 PLANTS

If a particular reference relates the GROUP being referenced to plants in terms of nontrivial systematic or ecological information on an individual species or group of plants, enter a l in the appropriate box.

- 55 Lower plants (general) Do not use if a more specific category exists. Do use, however, if the cross-reference is in general terms or to indicate that the specific reference material is within an over-all reference dealing with Lower Plants.
 - 56 Algae
 - 57 Bryophytes (mosses, liverworts, hormworts)
 - 58 Lichens
 - 59 Fungi (mushrooms, other fungi; include slime molds)

55-64 PLANTS (cont.)

- 60 Vascular plants (general) Use when the cross-referencing is in general terms or to indicate that the specific reference material is within an over-all reference dealing with vascular plants as components of a vegetation grouping.
 - Ferns and fern allies includes grape ferns, club mosses, etc.
 - 62 Gymnosperms includes pine trees or any specific mention of cone-bearing plants
 - 63 Angiosperms includes wildflowers, grass-type plants, berry bushes, fruit trees
 - 64 Trees and woody plants

65-76 PHYSICAL AND CONCEPTUAL

If a particular reference relates the GROUP being referenced to any of the categories below, enter a 1 in the appropriate box(es).

- 65 Management Enter a 1 if the reference deals with management of land, visitors, vegetation, forests, water, boars, fire, etc.
- 66 Climate Regional patterns, not site climates
- 67 Geology
- 68 Soils
- 69 Streams, waterfalls, ponds, watersheds, gorges
- 70 Water quality
- 71 Air quality
- 72 Fire include fire fuels management, lightning strikes, fire suppression, etc.
- 73 Human impact including ongoing impacts
- 74 Historic impacts Refers to past human impacts no longer occurring in the park or on the site discussed; e.g., logging, local hunting, Native American use of land, farming.
- 75 Rarity Flora
 Enter a l in this box if the reference includes some specifically
 documented rare plant or the presence of a rare species in the
 southern Appalachians
- 76 Rarity Fauna (Same as above with Flora)

77-80 GEOGRAPHIC

If the particular reference relates the GROUP being referenced to one of the areas below, enter a 1 in the appropriate box.

- 77 Cades Cove
- 78 Greenbrier area
- 79 Mount LeConte
- 80 State Line Ridge





As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environment and cultural value of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

U.S. DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE SOUTHEAST REGIONAL OFFICE 75 SPRING ST., S.W. ATLANTA, GEORGIA 30303

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF THE INTERIOR
INT-417



Clemson University
Reference Librarian - Division of Science &
Technology
R. M. Cooper Library
Clemson, SC 29631